

CALIFORNIA ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION
INTEGRATED ENERGY POLICY REPORT
AND TRANSPORTATION COMMITTEES

JOINT COMMITTEES WORKSHOP
ON
CALIFORNIA'S PETROLEUM INFRASTRUCTURE NEEDS

CALIFORNIA ENERGY COMMISSION
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APPEARANCES

COMMITTEE MEMBERS PRESENT

John Geesman, Commissioner and Presiding Member,
IEPR

James Boyd, Commissioner and Associate Member,
IEPR, and Presiding Member, Transportation

Jackalyne Pfannenstiel, Commissioner and Associate
Member, Transportation

Melissa Jones, Adviser to Commissioner Geesman

Michael Smith, Adviser to Commissioner Boyd

STAFF PRESENT

Gordon Schremp

Chris Kavalec

ALSO PRESENT

Dileep Sirur, Baker & O'Brien, Inc.

Joe Sparano, WSPA

PUBLIC COMMENT

James Schepens, Oiltanking

Dave Hackett, Stillwater Associates LLC

Dominic Ferrari, Pacific Energy Partners, LP

Mohsen Nazemi, SCAQMD

Nancy Wolfe, State Fire Marshal's Office

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1 P R O C E E D I N G S

2 COMMISSIONER GEESMAN: This is a
3 workshop of the California Energy Commission's
4 2005 Integrated Energy Policy Report Committee.
5 Today there are three of us here, so on an
6 informal basis it will be a joint workshop of the
7 Commission's Integrated Energy Policy Report
8 Committee and the Commission's Transportation
9 Committee.

10 I'm John Geesman, the Presiding Member
11 of the Integrated Energy Policy Report Committee.
12 To my left is Commissioner Jim Boyd, the Associate
13 Member of the Integrated Energy Policy Report
14 Committee and the Presiding Member of the
15 Commission's Transportation Committee.

16 And to his left is Commissioner
17 Jackalyne Pfannenstiel, the Associate Member of
18 the Commission's Transportation Committee.

19 To my right is Melissa Jones, my Staff
20 Adviser. I don't think we need much introduction
21 today. The focus of the day, I suspect, will be
22 on the staff report, An Assessment of California's
23 Petroleum Infrastructure Needs.

24 I see a lot of familiar faces in the
25 audience, so I think you've followed the

1 development of our interest in this issue over the
2 last couple of years.

3 With that, let me ask if Commissioner
4 Boyd or Commissioner Pfannenstiel have any
5 remarks.

6 COMMISSIONER BOYD: Thank you, no. I
7 think this is such a familiar topic that you've
8 pretty well cover it. Thanks.

9 COMMISSIONER GEESMAN: Gordon, it's all
10 yours.

11 MR. SCHREMP: Thank you, Commissioner
12 Geesman. Welcome everybody today. It's a bit
13 early, 9:00, and we appreciate everybody who had
14 to travel up here this morning. We're glad you
15 could make it and look forward to your input.

16 Without further ado, I'll go through my
17 presentation. It'll be a combination of myself
18 and Chris Kavalec. Chris Kavalec will be touching
19 on the demand forecast as well as the outlook for
20 projection of imports above crude oil and
21 petroleum products, what we call clean fuels.

22 Here's a broad overview of the topics
23 we'll be covering this morning, and we'll try to
24 make them as brief as possible.

25 I'll start off with petroleum

1 infrastructure. I'll give you a brief description
2 of the main elements. In our report we've broken
3 those down into three basic elements. We call
4 them the refineries, the pipeline systems and
5 marine infrastructure -- and storage tanks are
6 integral all throughout the infrastructure.

7 And two important points, crude oil and
8 clean products are not interchangeable petroleum
9 assets, meaning you can't just use crude tanks for
10 gasoline and vice versa. So they are separate and
11 distinct. And unlike electricity, the petroleum
12 system is not connected directly with pipelines in
13 northern and southern California, there is a break
14 there.

15 Refineries. The central nervous system
16 if you will. All the processing of crude oil
17 occurs at this location. Received by pipeline and
18 marine vessels at the facility itself.

19 And these facilities, when not
20 performing maintenance or experiencing unplanned
21 outage, are operating continuously, usually at or
22 near maximum capacity.

23 After the crude oil process it goes
24 through a network of petroleum product pipelines,
25 to over 70 terminals located throughout the state.

1 Refineries also dispense a portion of their clean
2 products at terminals located and connected to the
3 refineries.

4 The pipeline infrastructure and marine
5 movement map on slide 7 -- the blue line
6 represents movements by barge and proud tankers,
7 as well as crude vessels, and the blue line on the
8 Columbia River is barge movement.

9 And you can see there are refineries up
10 in the Pacific Northwest that bring product down
11 to California, and then the pipeline systems
12 represented in black lines, you see we do send or
13 have pipelines that are connected to both Nevada
14 and Arizona.

15 About 63 percent of the products that go
16 to Arizona come from the California side, and
17 about 100 percent that go into Nevada, into Reno
18 and Las Vegas.

19 And there are some of the numbers, I'll
20 skip by that.

21 Marine facilities. Safe harbors,
22 usually deep waters safe enough for the vessels.
23 Southern California has deeper water access
24 compared to northern California.

25 Some of the important elements of the

1 marine infrastructure are that most refiners have
2 their own proprietary marine berth, which aids in
3 their ability to schedule crude oil deliveries and
4 petroleum product deliveries.

5 Third party storers, though, is very
6 important for access to other marketers as well as
7 majors to get both into California as well as to
8 move products from northern California down to
9 southern California.

10 The storage tanks, as I mentioned, are
11 all throughout this system. They are used for a
12 variety of purposes -- storing unfinished product
13 between units of the refinery, crude oil, product
14 before it gets shipped into the pipeline or loaded
15 on to the barge, there's many different types of
16 storage applications.

17 And something we call strategy stores,
18 where usually gasoline is stored and held in
19 storage until there is an unplanned outage and
20 then you have that supply available to sell into
21 the rising market.

22 And some other terms of art if you will.
23 Dedicated drain-dry tanks. The note about drain-
24 dry tanks is we're seeing most of the new
25 construction does involved this type of tank.

1 What it means is you can take all the
2 product down to the very bottom and then change
3 the service -- go from gasoline to diesel to jet
4 fuel, etc. So this increases the flexibility and
5 versatility, that's pretty important.

6 Crude oil. I'll just give some of the
7 high points in crude oil now. About 84 million
8 barrels a day, according to the International
9 Energy Administration. That's pretty significant.

10 The United States, not quite 16 million
11 barrels a day. And the United States imports a
12 bit more crude oil than California does -- 65
13 percent versus 58 percent.

14 And as you can see in California, most
15 of our crude oil is from indigenous production and
16 then the imports are foreign and Alaska, in order
17 of importance.

18 And Chris will talk a little bit more in
19 his presentation about how production is
20 declining, and what that means for imports of
21 crude oil as well as what we refer to as refinery
22 creep, when modest expansion projects are
23 occurring at refineries when they perform plant
24 maintenance, and in some cases larger projects.

25 A visual on the crude oil production in

1 the United States, including California. As you
2 can see, we do have a decline. Alaska has
3 declined the most over this period, about 51
4 percent, followed by the rest of the United States
5 and California, an identical 34 percent decline
6 over this time period.

7 A little more focused look at
8 California. You happen to see that there was a
9 bit of a peak that occurred in 1995, that's what
10 the fed OCS refers to as Outer Continental Shelf,
11 that's some drilling outside the state waters.

12 And that actually peaked and then has
13 leveled off. But most of the production in
14 California is from what we call state onshore. A
15 lot of this located down in the southern San
16 Joaquin Valley.

17 Now California production, from more of
18 a peak in 1998, has declined about 19 percent.

19 One high point from this slide is I have
20 43 percent from enhanced oil recovery. That's
21 your creating steam, injecting it into the ground,
22 the crude oil is very viscous and difficult to
23 pump and move into pipelines, and so this is an
24 important recovery technique in California, quite
25 different from the rest of the US or other places

1 in the world.

2 Alaska did slow in its' decline of
3 production, and leveled off, and then has
4 continued again. There's been some renewed
5 efforts up in Alaska to drill for more crude oil.

6 But it is interesting to note that 19
7 percent decline in production in California even
8 though the price has gone up significantly over
9 the same time period.

10 I'll transition now, some brief slides
11 on imports and exports.

12 This is a combination of both imports,
13 exports, and what we call intrastate movements.
14 The reason we have combined all these numbers
15 together is because this is a better measure of
16 what the load or use in the marine facility is.

17 Because a barge, whether it's loading or
18 unloading, is occupying space and time at a marine
19 berth. And in the main case it's using similar
20 pipeline systems.

21 Now, you'll see over this time period
22 that they've gone up and down. There's some
23 variability. There are various factors that can
24 affect the importation of clean products or
25 components, and that has to do with refinery

1 operations.

2 If refineries don't operate very well in
3 a particular year you'll see more imports. If
4 they operate very well you'll see less imports.
5 And I've added onto this slide, the light blue
6 color in slide 18 is the amount of ethanol we're
7 receiving by rail.

8 And that's important because we have a
9 lot of MBTE, about 11 percent by volume, then we
10 switched. In 2003 half the industry was without
11 MBTE, and in 2004 the entire industry. And most
12 of that does come in via rail, from the midwest,
13 about 20 million barrels.

14 The following three slides are just some
15 additional background information. Some of the
16 numbers and statistics you see from there.

17 Main trend is that imports are climbing
18 and exports are declining. These are for clean
19 products.

20 Crude oil, a general upward trend. 2004
21 was down slightly compared to 2003. This was
22 primarily due to heavier than normal refinery
23 planned maintenance, so less crude oil was run
24 through the refineries at this time.

25 So the 1996-2004 change, there's only

1 about ten and a half percent, not a significant
2 amount. But what you can see from there is that
3 the foreign sources of crude oil are climbing
4 rather quickly.

5 We expect that trend to continue, and
6 Chris will do a more thorough job of talking about
7 the change in crude oil imports moving to the
8 future. Here's, once again, some of the numbers.

9 And at this time I'd be happy to answer
10 any questions, or we can let Chris proceed with
11 his demand forecast. Okay.

12 MR. KAVALEC: Good morning. I'm going
13 to discuss our import projections for clean fuels,
14 meaning gasoline, diesel and jet fuel, as well as
15 crude oil, which are critical in determining how
16 much infrastructure we're going to need.

17 To project imports of a product you need
18 to have a demand forecast and you need to have a
19 supply forecast. Supply meaning supply produced
20 in California for California.

21 So first we need a forecast for demand
22 for clean fuels. And luckily we have a
23 transportation energy forecast available that was
24 done for the 2005 Integrated Energy Policy Report,
25 and so I'll say a few things about that.

1 The transportation energy forecast
2 covers the fuel types you see there on the left.
3 We're mainly interested in the big three here,
4 gasoline, diesel, and commercial jet fuel. And
5 you see the sectors that are covered are the
6 different uses covered by the transportation
7 energy forecast.

8 Some of the key assumptions. Gasoline
9 and diesel fuel prices come from the most recent
10 Energy Information Administration crude oil price
11 forecasts. This was turned into a California
12 forecast by using historical California retail and
13 wholesale margins.

14 A little bit over \$2.00 in 2004 for
15 gasoline, going up to roughly \$2.25 by 2025, with
16 diesel prices a little bit lower. Gasoline prices
17 are obviously higher now, and if they stayed at a
18 high level through the rest of this year and
19 onward then you would expect there to be less
20 demand for gasoline and diesel and therefore less
21 imports and infrastructure required.

22 Jet fuel prices are based on the most
23 recent FAA forecasts.

24 COMMISSIONER GEESMAN: Chris, let me ask
25 you the extent to which you can quantify those

1 price elasticity assumptions?

2 MR. KAVALEC: Well, in our models you
3 have an elasticity of roughly 10 percent. So if
4 you were to increase gasoline prices another 10
5 percent you'd have a one percent drop in demand,
6 roughly.

7 Okay, below that some econ demo rates.
8 The key one here is the population growth rate.
9 It's relatively low this time. This is a
10 forecasting that comes from the Department of
11 Finance, and I'll say more about that in a minute.

12 Forecast for hybrids is consistent with
13 what the Air Resources Board expects will be on
14 the road, so that the auto manufacturers can meet
15 the zero emission vehicle requirements.

16 Our diesel experts tell us that diesel
17 light duty vehicles will be available starting in
18 2008. And we have two forecasts, a base case
19 forecast that assumes implementation of greenhouse
20 gas regulations, and an alternative forecast that
21 doesn't.

22 And here are the results. You see the
23 gasoline forecasts at the top. And you can see
24 the impact of the Pavley greenhouse gas
25 regulations. Base case gasoline demand flattens

1 and even declines before beginning to increase
2 again towards the end of the forecast period.

3 And by 2025 you have a difference
4 between the two forecasts of over two billion
5 gallons.

6 At the bottom, jet fuel and diesel
7 forecasts. The diesel forecast shown here is from
8 the base case. The alternative case gives
9 slightly higher diesel because the greenhouse gas
10 regulations also affect diesel light duty
11 vehicles, given them higher fuel efficiency. But
12 the two are so close that I didn't want to crowd
13 the graph with both of them, so I only put the one
14 in.

15 Some particulars. In the base case
16 obviously there's almost no growth in gasoline
17 demand. And in the alternative case a little bit
18 less than one percent per year on average.

19 Diesel and jet fuel grow by an average
20 of a little bit less than three percent. And
21 average fuel efficiency rises by around 33 percent
22 in the base case forecast due to the greenhouse
23 gas regulations and by around ten percent in the
24 alternative case.

25 COMMISSIONER GEESMAN: Could I ask yo

1 Chris, in terms of -- and I guess tomorrow we'll
2 be getting more into the forecast presentation, so
3 I don't want to dwell on it too long -- but in
4 terms of the base case and the assumed gains in
5 average fuel efficiency creating an average growth
6 rate of .1 percent per year, how does that compare
7 in terms of growth in gasoline demand to the late
8 70's, early 80's, maybe even to more the mid-80's,
9 when we had a similar improvement in fuel
10 efficiency caused by CAFE standards?

11 MR. KAVALEC: I would have to look at
12 that. And that's something I could do for
13 tomorrow.

14 COMMISSIONER GEESMAN: Yeah, you might
15 mark that down as something to --.

16 MR. KAVALEC: Yeah, and the average rate
17 over the last 20 years overall has been around two
18 percent and higher.

19 Okay. In comparison with our last
20 forecast, that we did for the 2003 IEPR, gasoline
21 growth is lower, not just in the base case but in
22 the alternative case as well.

23 And this is important because reduced
24 gasoline demand reduces import and infrastructure
25 requirements.

1 And three reasons for this -- lower
2 projected population growth, coming to us from the
3 Department of Finance. About 1.1 percent in this
4 forecast versus somewhere around 1.5 percent on
5 average per year in the 2003 forecasts.

6 More light duty diesel vehicle sales.
7 Our experts tell us that manufacturers are more
8 bullish on diesel light duty vehicles and will be
9 ready to offer a whole host of models starting in
10 2008.

11 And there's a slight increase in fuel
12 efficiency for conventional gasoline vehicles that
13 wasn't included and incorporated in the last
14 forecast. And this comes to us from our expert
15 consultants on these matters, who claims that new
16 fuel efficiency technologies are going to be
17 available and incorporated into vehicles over the
18 forecast period.

19 COMMISSIONER GEESMAN: Let me ask you,
20 with respect to those population assumptions - and
21 again, this may be better left for tomorrow in any
22 detail, but the way you utilize population
23 assumptions in your model, does it make any
24 difference where in the state population growth
25 occurs? Or are you simply driven by a statewide

1 variable?

2 MR. KVALEC: This is all driven by
3 statewide. We have the capability to do regional
4 forecasts but we didn't do them for the 2005 IEPR.

5 COMMISSIONER GEESMAN: Okay. Because I
6 suspect we'll be getting into these population
7 numbers in our electricity demand forecast in some
8 detail, and I do know that there are parts of the
9 state where there is quite a bit of dispute as to
10 whether the Department of Finance numbers are the
11 most accurate available.

12 MR. KVALEC: That's true. And low
13 population growth comes apparently mainly from
14 very low growth in the LA Basin and higher growth
15 in the Bay Area.

16 So that's our clean fuel demand. Before
17 I get to supply of clean fuels we'll go into our
18 crude oil import projection.

19 The demand of this product comes from
20 crude oil input to refiners. And the top curve on
21 the left hand side shows the historical level of
22 crude oil inputs.

23 To project this out to the future, we
24 assumed the rate of growth to be given by the
25 average annual growth rate in crude oil processing

1 capacity for refiners, which in recent years was
2 around one-third of one percent. So that's how we
3 got the dotted line on the top.

4 Supply from California obviously comes
5 from extraction of crude oil from onshore and
6 offshore wells. The left hand side on the bottom
7 curve shows historical levels of distraction, and
8 as you can see they're declining.

9 To project this out into the future we
10 assumed that the extraction would decline by the
11 average annual rate over the last 20 years, which
12 is around two percent. So that's how we got the
13 bottom dotted line.

14 So now we have a supply and a demand,
15 and the difference between the two gives up
16 projections for imports. As you can see, there
17 are 380 million barrels in 2004, increasing to
18 around 460 million by 2015, and 520 million by
19 2025.

20 COMMISSIONER GEESMAN: I guess a concern
21 I have there is that, obviously you're input
22 experience over the last 20 years has been fairly
23 volatile.

24 MR. KAVALEC: Yes it has.

25 COMMISSIONER GEESMAN: I'd expect

1 there's a fairly significant standard deviation
2 around that straight line or smooth line that you
3 project out in 20 years. From a policy making
4 standpoint shouldn't we take into account the
5 volatility of that assumption?

6 MR. KAVALEC: Well, a little bit later
7 I'll talk about the ramifications of higher growth
8 in crude oil input, but this is the only case that
9 we have in the report. We could obviously add two
10 or three more cases looking at different growth
11 rates, but we only have the one.

12 And we welcome any input from those in
13 the industry here today that want to talk about
14 projections of crude oil input.

15 MS. JONES: Chris, if I could just ask,
16 there's a note here that the numbers were revised,
17 and I noted from the report that they have dropped
18 a little bit. Can you explain the difference?

19 MR. KAVALEC: That came from a
20 discrepancy between crude oil production in
21 California and crude oil production in California
22 that went to input for refiners. The reason for
23 the difference between the two, I'm not sure. But
24 that's, it's a difference of about ten million
25 barrels, and that's where that came from.

1 MS. JONES: Okay, thanks.

2 MR. KAVALEC: Okay, this slide just
3 gives the details that I went over in the last
4 slide.

5 And back to clean fuels. We have our
6 demand, and now we need a supply produced in
7 California for California to give us a projection
8 for imports.

9 First though, the two curves at the top
10 there show the demand for clean fuels, gasoline,
11 diesel and jet fuel. And that's just the sum of
12 the individual forecast that I showed in the
13 previous slide. So that's just the sum of the
14 three.

15 Our supply is a projection of California
16 refinery production of clean fuels. And to get
17 this we started with the 0.3 percent growth in
18 crude oil processing capacity, but then recognized
19 that refiners have been increasing capacity in
20 other units, such as crackers, at a higher rate in
21 crude oil processing capacity.

22 So to incorporate that we made the
23 projection for refined supply equal to 0.5
24 percent, slightly higher than 0.3 percent. That's
25 what we refer to as refinery creep.

1 COMMISSIONER GEESMAN: How does that
2 compare with historical rate?

3 MR. KAVALEC: Would you know that
4 offhand, Gordon?

5 MR. SCHREMP: The historical rate for
6 the capacity change has been in that range, about
7 .4 to .6 percent. We have seen output from
8 refineries grow at a higher rate on an annual
9 basis then that number. That is being
10 accomplished by additional imports of blending
11 components that are converted into more gasoline
12 that they show as production.

13 MS. JONES: In the previous slide you
14 indicated that from '96 to 2004 it was about .3
15 percent?

16 MR. KAVALEC: Right, that's where that
17 crude oil processing capacity increase projection
18 came from. And again, we added to that slightly
19 to take into account increases in other types of
20 processing capacity to give us 0.5 percent.

21 Now there are some that would say that
22 it's a higher number, and I will talk about the
23 impacts of having a higher growth rate for
24 refinery creep in a minute.

25 Okay, so that gives us our bottom line

1 there, projected refined supply increasing at a
2 rate of 0.5 percent per year. The dotted line
3 above that shows the difference supply and demand
4 in 2003.

5 So anything above that dotted line and
6 below the demand curves gives a projected increase
7 in imports. For example, in 2025, under the base
8 case, imports are projected to increase by three
9 billion gallons, and in the alternate case by
10 roughly double that.

11 This slide just gives the details of
12 what I went over in the last slide.

13 And obviously there's a lot of
14 uncertainty here. And there is a tradeoff between
15 crude oil and clean fuels imports. Higher
16 refinery creep, in other words, more California
17 production of clean fuels, means less imports of
18 clean fuels. However, it also means more imports
19 of crude oil. So there's a tradeoff there.

20 A couple of examples of what happens
21 when we modify our supply and demand forecast
22 slightly. If we were to assume a one percent
23 annual increase in crude oil distillation
24 capacity, instead of 0.3 percent, along with a 3.5
25 percent annual decline in extraction instead of

1 two percent -- the 3.5 percent is used here in
2 this example because it's the annual average
3 decline rate over the last five years rather than
4 the last 20 years.

5 The combination of these two would
6 increase crude oil imports 30 percent by 2025,
7 from 520 million barrels that we saw in a previous
8 slide to around 675 million barrels.

9 Another example. If the greenhouse gas
10 regulations are not implemented and growth in
11 clean fuels is around two percent rather than one
12 percent or less -- and this two percent, as I
13 mentioned, is roughly the average over the last 20
14 years -- imports of clean fuels would double in
15 the base case and rise by 50 percent in the
16 alternate demand case.

17 This slide gives a summary of the
18 projected increases in imports broken out into the
19 Bay Area and the LA Basin. The way that we did
20 this was to assume that the current proportions of
21 import arrivals into the LA Basin versus the Bay
22 Area remains constant.

23 And those proportions are 60 percent
24 crude oil to LA, 40 percent to the Bay Area, and
25 80 percent clean fuels into the LA Basin and 20

1 percent into the Bay Area.

2 So that's our projections for imports
3 that we used in this report to try and determine
4 how much infrastructure we're going to need and
5 I'm going to turn it back over to Gordon now, who
6 will talk about our ability to accommodate these
7 imports.

8 COMMISSIONER GEESMAN: One last
9 question, Chris. Your population numbers, or your
10 demand projection for that matter, what did you
11 assume for Arizona and Nevada?

12 MR. KVALEC: I'm sorry, for growth rate
13 in population?

14 COMMISSIONER GEESMAN: Yeah.

15 MR. KVALEC: We didn't include any
16 changes in impacts from Arizona or Nevada. They
17 weren't part of the forecast.

18 COMMISSIONER GEESMAN: So they just
19 stayed at their current level of demand?

20 MR. KVALEC: Right.

21 COMMISSIONER GEESMAN: And that was held
22 steady throughout the forecast period?

23 MR. KVALEC: Well, we do mention that
24 in the report. Some of the imports that come into
25 California are, their actual final destination is

1 Arizona or Nevada. So to the extent that growth
2 in Arizona and Nevada increases, that increases
3 the import requirements at our ports.

4 COMMISSIONER GEESMAN: But you haven't
5 currently quantified --?

6 MR. KAVALEC: We didn't quantify that,
7 no.

8 COMMISSIONER GEESMAN: Okay.

9 COMMISSIONER BOYD: Building on that, is
10 that a safe assumption? Looking at the way
11 southern Nevada and Arizona have been growing in
12 the last few years, it seems to me that just
13 hanging on to previous levels of exports from our
14 state, it's going to be a little tough.

15 MR. KAVALEC: Well, two things are
16 happening in Arizona. One is the Longhorn
17 Pipeline coming from Texas, which should reduce
18 the amount of imports required from California.

19 And the other thing is the possibility
20 of a refinery opening up in Arizona.

21 COMMISSIONER GEESMAN: Okay, Gordon.

22 COMMISSIONER BOYD: I'm glad you said
23 possibility.

24 MR. SCHREMP: Thank you, Chris. Chris
25 mentioned a little while ago about greater use of

1 light duty diesel vehicles, and it just so
2 happens, outside our very doorsteps here, we have
3 a couple of examples of light duty diesel vehicles
4 that people can actually take for a spin.

5 A good test is probably taking them up
6 to Tahoe, you know, with the steep climb. So we
7 welcome anybody to try that. Of course that's a
8 joke.

9 I'll talk about some of the good news
10 now. Work has been underway recently and more
11 projects are under construction, so this is good
12 news. And I'll go through some of those same
13 categories.

14 A couple of examples in the refinery
15 sector happen to be Paramount Petroleum in
16 southern California. They have a project that's
17 nearing completion. They'll be able to produce
18 both clean diesel and clean gasoline, meeting
19 California specifications, by the third quarter of
20 2005.

21 Big West, or Flying J, is a new refinery
22 owner in Bakersfield. They're the company that
23 purchased the south Bakersfield facility and
24 they're operating it. They are also looking at
25 expansive plans for that facility, about 10,000

1 barrels a day incremental gasoline, and about
2 12,000 barrels a day for diesel fuel.

3 This is the Kinder Morgan Pipeline
4 Project. This was the new pipeline constructed in
5 Concord and West Sacramento. An important, a
6 couple of key notes from this slide are the time
7 it took to obtain their permit to construct, 35
8 months. That's a significant period of time.

9 And these types of projects, across
10 multiple jurisdictions, can extend the time
11 period to acquire permits. Although it should be
12 noted, Kinder Morgan had another project where
13 they built three storage tanks at one location,
14 and it took three years to construct those tanks.
15 So, other permits can take an extended period of
16 time.

17 Marine facilities. This is what's
18 referred to, on slide 39, as Pier 400 in the Port
19 of Los Angeles. Most of this area now is occupied
20 by containers. This is an older photograph, and
21 there are about 15 acres left to put in a facility
22 for some petroleum infrastructure.

23 One of the companies is Pacific Energy.
24 They have a project, they are moving through the
25 permit process, to develop a site at Pier 400.

1 Oiltanking, another company, is also
2 looking at a berth in the port of Long Beach. So
3 both of these projects are looking at crude oil
4 import infrastructure developing, which -- as you
5 saw from Chris' slide -- is the lion's share of
6 the incremental crude oil is expected to go into
7 the Port of Los Angeles and Long Beach.

8 But there is, has been, and continues to
9 be pressure to delay or even block these types of
10 projects, which could have an impact on crude oil
11 availability for refiners.

12 COMMISSIONER BOYD: Gordon?

13 MR. SCHREMP: Yes.

14 COMMISSIONER BOYD: If these folks are
15 successful in developing Pier 400, is there
16 adequate existing infrastructure to get the
17 increased import out of the port and to the places
18 it needs to go?

19 MR. SCHREMP: Speaking to the Pacific
20 Energy project -- and we have somebody here who
21 could answer some additional, more detailed
22 question -- it's my understanding that the project
23 would be a marine berth, associated pipes, storage
24 tanks located at multiple points at Pier 400 and
25 other Port of Los Angeles property.

1 So yes, the plan is to build that
2 appropriate infrastructure, not only to offload
3 the vessel sufficiently, but to get into the
4 existing infrastructure of crude oil pipelines.
5 That is part of the project, yes.

6 COMMISSIONER BOYD: Thank you.

7 MR. SCHREMP: This photograph is of the
8 Kaneb Martinez facility. It's in northern
9 California. The facility has already constructed
10 300,000 additional barrels of clean fuel storage
11 capability, and two more tanks, one you see here
12 and another footprint in the foreground, an
13 additional 400,000 barrels.

14 Now this facility, I would say, is
15 rather unique in its permit situation. They have
16 an approved Environmental Impact Report that was
17 developed a number of years ago, and what they
18 have to do to obtain a permit to construct is go
19 to the city for a land use permit.

20 And that process is certainly quite
21 abbreviated and is much easier than another
22 facility might encounter if it was to attempt an
23 expansion of storage tanks or refineries or
24 pipelines, etc.

25 Now there have been some other storage

1 projects. I mentioned the jet fuel storage tank
2 delay, and then there is also, this next example
3 is in southern California, the Kinder Morgan
4 Carson Facility.

5 And the area outlined in the red is the
6 footprint of where their additional storage tanks,
7 or the majority of those additional storage tanks
8 will be constructed.

9 The project was delayed between 9 and 12
10 months, but construction is now underway for the
11 initial four tanks, a total capacity of about
12 320,000 barrels. And those will also be for use
13 of clean fuels.

14 Chris showed a slide a bit earlier that
15 looked at the incremental volume going through the
16 system that's anticipated in 2015 and 2025. Here
17 we're showing the clean fuels.

18 Now, before I talk a little bit more
19 about that, I'll mention on the crude oil, we
20 don't have a slide there for the crude oil tank
21 capacity need. It's our belief that the project,
22 either one of projects in southern California, if
23 they are constructed with their associated
24 tankage, that should be enough to handle the
25 incremental demand of crude oil between now and

1 2025.

2 And the assumption is, and an important
3 assumption, no other petroleum assets are lost
4 over that time period.

5 COMMISSIONER BOYD: Well, the assumption
6 also is that we find your two forecasts reasonable
7 in bounding the range of likely possibilities, and
8 we accept your holding the Arizona and Nevada
9 demand constant. And there's probably a number of
10 other different assumptions embedded in that
11 statement as well.

12 MR. SCHREMP: That's correct,
13 Commissioner Geesman. And as Chris has pointed
14 out, changing those assumptions can increase these
15 numbers, and rather significantly, so that is
16 correct.

17 COMMISSIONER GEESMAN: I wonder, on the
18 storage area, is there a standard unit of
19 measurement that we can use to try and bring a
20 little bit more meaning to this table?

21 MR. SCHREMP: Well, I think that, how
22 the numbers were created, we were looking at the
23 average of unloading rates of the vessels through
24 the current system, looking at the additional load
25 and how much additional storage tank capacity.

1 If you change your assumption on the
2 size of the vessels that are offloading, the
3 amount of time the material stays in the storage
4 tank before going on to either be processed or
5 into the pipeline, these numbers can be larger.

6 I'll give you an example. The crude oil
7 storage tanks, especially in the Bay Area, allow
8 refineries to have pipeline connections to crude
9 oil fields. That is what we call a more rakeable
10 volume of delivery of crude oil.

11 First is receiving a large vessel that
12 has to be offloaded rather quickly and
13 efficiently. So we're seeing not only a shift to
14 higher incremental volumes of crude oil, but they
15 will require actually larger tankage because of
16 the size of the vessels that are coming in. This
17 has been in particular for southern California,
18 which has deeper water compared to northern
19 California.

20 So to put these tank numbers in context,
21 the total capacity in California for clean
22 products has been upwards of 25 million barrels.
23 So these seem to be small, but you also have to
24 take into consideration that a lot of that storage
25 tank capacity for what we call clean fuels is tied

1 up in the refineries for the storage of
2 intermediate products that they're producing when
3 they operate their processing units.

4 That kind of storage capacity is not
5 available for additional imports. So you have to
6 look at the marine facilities.

7 Now in the Bay Area we have what we call
8 third party storage. That's where we're seeing a
9 lot of the activity for new construction, that's
10 where we're seeing new entrants into the market
11 bring clean products into California.

12 And the storage capacity additions are
13 significant that have already occurred at the
14 Martinez facility. You're looking at I think at
15 least an increase of 50 percent at that one
16 facility alone. So that is rather significant, to
17 put some of these figures into better context.

18 COMMISSIONER GEESMAN: Okay, but I want
19 to look at the column that says "LA Basin." And
20 if I looked at your last slide, the Kinder Morgan
21 project, you suggested could add one and a half
22 million barrels of additional capacity over a 15
23 year period.

24 Is the size of that project, or the
25 acreage required, a standard that you're likely to

1 have to replicate to get 3.4 or 6.0 million of
2 additional barrels of storage by 2015?

3 MR. SCHREMP: Well, I tell you what,
4 we'll go one slide forward which I think will help
5 address the questions you're asking about, we've
6 seen these new projects underway, we have a
7 forecast here for clean product storage capacity.
8 When you put the two together, is that enough?

9 Or does there need to be more? And
10 that's a very good question.

11 COMMISSIONER GEESMAN: Yeah, but
12 somebody's going to ask me how many tanks, how
13 much acreage. And what I'm trying to press you
14 guys to do is help me develop that answer in a
15 quantitatively rational way.

16 MR. SCHREMP: Okay. The first bullet
17 here is an attempt to address the quantification
18 of the storage tank incremental need, beyond what
19 is already occurring and what has already been
20 permitted to construct.

21 So as you can see, in southern
22 California in the Los Angeles Basin, there still
23 needs to be a significant build of clean product
24 storage tankage.

25 COMMISSIONER GEESMAN: But I don't know

1 how many tanks, and I don't know how much acreage.

2 MR. SCHREMP: For clean products tanks
3 you'll see tanks ranged from anywhere from 50,000
4 barrels upwards of 200,000 barrels. And,
5 depending on the location, you raise a very good
6 point about availability of land space.

7 Storage tanks have been, and we feel
8 will most likely continue, on land that is
9 currently being occupied by a tenant that does
10 have storage tanks.

11 On the Kinder Morgan photograph of
12 Carson you saw that footprint was in their own
13 property, but land is being used up and they don't
14 have a lot of room for additional expansion. And
15 Kinder Morgan can possibly address that today.

16 We're looking at a site in Martinez.
17 Yes, they have additional land to expand, more so
18 than down in southern California, and that's the
19 case for other facilities located in northern
20 California, land is not as much a premium nor is
21 the close proximity to residences that have placed
22 additional pressure on the facilities in southern
23 California.

24 So we think that, certainly in northern
25 California, a modest amount of incremental storage

1 tank capacity, 700,000 barrels, can be handled
2 with the existing land available there.

3 In southern California we have not
4 specifically looked at footprint analysis to see
5 exactly where those tanks will go and is there
6 actual land space available.

7 And I would say, just qualitatively
8 speaking, comparing the two, that would be a bit
9 more challenging in southern California,
10 especially with some of the pressure that has come
11 on these assets and some of the assets that have
12 already been shut down and the tanks removed.

13 COMMISSIONER GEESMAN: Well, I'm not
14 certain that it's our task to do, but I would
15 think that somewhere between ourselves and the
16 State Lands Commission and the ports of Los
17 Angeles and Long Beach somebody better do it.

18 ?The magnitude of problem that you're
19 projecting, even under your favorable forecast
20 assumption, would appear to be large enough to
21 compel somebody to do that footprint analysis.

22 MR. SCHREMP: That's a good point.

23 COMMISSIONER BOYD: Gordon, how much of
24 the Kinder Morgan project is assumed already in
25 your first bullet, because it says "assuming

1 existing infrastructure." Did you include the
2 four tanks leased in your assumption, or is any of
3 that in there?

4 MR. SCHREMP: We assumed that storage
5 tanks under construction and projects that have
6 been permitted are going to be built as forecast.

7 In addition to that, we assumed for the
8 Martinez facility, the Kaneb facility, they have
9 additional capacity that they're allowed to build
10 with just obtaining a use permit. We expect those
11 tanks to be constructed as well, even though
12 they're currently not under construction.

13 We expect one large crude oil facility
14 to be constructed in southern California, and we
15 assume that will be constructed.

16 So those numbers, yes, for the clean
17 products and for the crude oil, are embedded in
18 our assumptions. And what is remaining here for
19 the clean products is still significant in size
20 for additional storage tank capacity.

21 COMMISSIONER BOYD: Thank you.

22 MR. SCHREMP: And I think the final
23 point is, even though there is not a proponent
24 that is looking at building a crude oil import
25 facility in northern California it does not mean

1 there is not a need.

2 We think the need in northern California
3 is a bit slower growth spread out among several
4 refiners who already have proprietary dockage.
5 There is a bit of a problem with the amount of
6 water or depth of water, which limits the size of
7 the vessels you can bring in.

8 And I'll talk about that in just a
9 minute. So there is a significant difference
10 between the Bay Area and Los Angeles. But because
11 no proponent has come forward at this time doesn't
12 mean that that won't happen, nor does it not mean
13 that individual refineries will build a couple of
14 storage tanks to handle additional crude oil
15 imports at their own proprietary dock.

16 COMMISSIONER BOYD: Gordon?

17 MR. SCHREMP: Yes.

18 COMMISSIONER BOYD: Another question.
19 Your first bullet is predicated on the assumption
20 that existing petroleum infrastructure capacity is
21 retained. How secure are you in that assumption,
22 how good an assumption is that? Is there jeopardy
23 for existing petroleum infrastructure, either
24 north of -- well, the first bullet's LA, LA seems
25 to be the choke point here.

1 MR. SCHREMP: Commissioner Boyd, that's
2 a good question, and yes, I can't stand here and
3 say that it will be retained because we have some
4 recent examples of some storage tank capacity that
5 has, as I mentioned, gone away, been removed.

6 We have had some recent examples of
7 lease renewals to continue operation as a
8 petroleum infrastructure facility, that lease
9 renewal being denied.

10 So I think there's a recent track record
11 that gives us pause for concern that maybe
12 additional closures could occur which would
13 certainly affect the projected needs for storage
14 tanks down in the Los Angeles Basin.

15 COMMISSIONER BOYD: I think your report
16 also indicated that the MOTEMS requirements were
17 likely to result in the cancellation or
18 abandonment of some of this infrastructure.

19 MR. SCHREMP: Yes, the Marine Oil
20 Terminal and Engineering Maintenance Standards,
21 MOTEMS, is a regulation that's going to be
22 enforced by the California State Lands Commission.
23 It's basically bringing in marine terminals up to
24 appropriate engineering and safety standards to
25 prevent spills.

1 The regulation has been crafted to go
2 into effect over a longer period of time to
3 diminish the opportunity to interfere with the
4 commerce of the movement of petroleum products.

5 According to the State Lands Commission
6 information the vast majority of the crude oil
7 import facilities are rated in what they call a
8 good category, meaning very little modifications
9 anticipated to meet the new standards.

10 For clean fuels, about 80 percent, or
11 75, are in the good category. And the other 25 to
12 20 percent is facilities that need significant
13 upgrading.

14 Yes, it is possible that through that
15 process business decisions could be made to shut
16 down a marine facility. We'll have to see how
17 that plays out.

18 But in total we think the minority of
19 the petroleum assets are the ones that may require
20 significant upgrades. The vast majority will not
21 as a result of that standard.

22 These two bullets, the first one should
23 be obvious from our recent discussion. And I want
24 to transition now to some of the concerns and
25 problems that we still see which have resulted in

1 staff's recommendations which are in the report in
2 greater detail, and I will touch on these final
3 four slides rather briefly.

4 The first is the constraint, the loss of
5 petroleum assets that we've already discussed.
6 And part of that has to do with a lease renewal
7 process in the ports in southern California. So
8 the staff recommendation is there is no, at this
9 point, an opportunity for an applicant to appeal
10 to another body if their lease is denied.

11 We're proposing that there be such a
12 renewal appeals process created.

13 In the area of some of the lengthy
14 delays in some of the petroleum infrastructure
15 projects and the local opposition, our
16 recommendations come in two groupings. One has to
17 do with an attempt to try to maybe -- I don't want
18 to use the work streamline -- but if there are
19 opportunities to improve that permitting process
20 for some of these significant delays can be
21 reduced in their time.

22 And that's why you see a couple of
23 recommendations such as the CEC acts as a permit
24 facilitator. Could that be something that could
25 be put in place that would improve the situation

1 and still address all the appropriate
2 environmental and environmental justice concerns.

3 A one stop permitting process is also
4 another suggestion. And this has to do mostly
5 with petroleum infrastructure projects that cross
6 multiple jurisdictions. This could be a marine
7 facility but it is more likely a petroleum product
8 or a crude oil pipeline.

9 The last two bullets have to do with, I
10 think, greater outreach. Getting the information
11 out, explaining to decision makers and
12 stakeholders not only how the system works but the
13 importance of it and what we see as changes to
14 that system, and what we think would need to be
15 done to accommodate that change without losing our
16 ability to supply petroleum products to consumers
17 here in California.

18 Marine access. I think we've adequately
19 covered the first staff recommendations where we
20 propose to monitor how MOTEMS is going, although
21 we believe for crude oil there will be very
22 minimal impacts, and for clean products more of an
23 impact in southern California than in northern
24 California.

25 The access to third party I mentioned

1 earlier. How we've seen new entrants into our
2 market in California, which we think is good. We
3 expect to see more new entrants into this
4 marketplace, but there needs to be an ability for
5 those entrants to be able to bring in those
6 petroleum products.

7 And that has everything to do with
8 storage tank capacity. And I think the projects
9 down in southern California with Kinder Morgan and
10 the projects at Kaneb terminals in northern
11 California are facilitating better access for
12 third party.

13 But there have been circumstances where
14 third parties have been unable to gain access, and
15 there have been suggestions through our meetings
16 with numerous third party applicants that there
17 could be some sort of arbitration mechanism that
18 could be put in place.

19 We're not quite sure how that could be
20 crafted, and we understand these are, there are a
21 lot of business decisions going on with this type
22 of commerce.

23 The final recommendation I'll touch on
24 has to do with dredging. Adequate dredging is
25 vital, this is more a northern California issue

1 because northern California marine terminals are
2 adjacent to an active river system, depositing
3 silt on a continuous basis, especially during the
4 storm runoff period of time.

5 Dredging some of the low points is
6 important to allow the vessels to continue coming
7 in, and what we've seen over the last couple of
8 years is the funding sources to perform and
9 consistently schedule those dredging events has
10 been limited and sporadic.

11 And so what we're recommending is that
12 there be some firm commitment, especially to
13 northern California dredging activities, to
14 maintain minimum depths at the place Pinole Shoal,
15 and that's up by Richmond.

16 And those conclude my remarks. I'd be
17 happy to address any other questions you might
18 have at this time.

19 COMMISSIONER BOYD: Gordon, I want to go
20 back, on your last slide, the reference to
21 dredging. There is, if I'm not mistaken, an
22 infrastructure of organizations that are involved
23 in permitting and who have a concern for dredging
24 in the Bay Area, is there not?

25 Don't BCDC and other agencies have kind

1 of a formal structure to deal with this? So is it
2 a matter of working more closely with that group
3 and pushing their horizon out a little further
4 with regard to future needs, rather than just to
5 individual permits as they come in?

6 MR. SCHREMP: It's our understanding
7 that -- BCDC is one of the important and critical
8 elements in northern California -- it's our
9 understanding that the organization both the Army
10 Corps of Engineers and the inspecting industry,
11 including the Coast Guard, they all do work very
12 well together.

13 I think they understand the system, its'
14 complexities and its' pinch points, far better
15 than we do, and they do a very good job of
16 forecasting what those needs are.

17 I believe what we're seeing
18 consistently, it's not a point that they have not
19 understood nor scheduled these dredging events,
20 it's the money. It comes down to the money
21 absolutely not being available to do all of the
22 dredging that is anticipated and needed that these
23 groups conclude must occur.

24 So that, as the last point, the money
25 just isn't there to do all the work that's

1 necessary.

2 COMMISSIONER BOYD: Do these agencies,
3 have they in the past run this issue up their
4 chain of command? Is there anyone anywhere
5 pursuing the question of federal funding, with
6 vigor? Recognizing your competing against
7 hundreds if not thousands of other people who want
8 their piece of the pie earmarked for them or what
9 have you.

10 But do we have at least an active
11 mechanism, a campaign to seek funding? Or is this
12 something that's missing?

13 MR. SCHREMP: We, our staff, has not
14 pursued an active campaign, but we understand that
15 there are both state and federal legislators from
16 California who are pursuing this issue.

17 And you're right, Commissioner Boyd, the
18 pot of money available is being oversubscribed.
19 These are for ports and waterways all throughout
20 the United States and US territories, so there is
21 not only the problem of the amount of money that's
22 in the pot each year, but the needs and the
23 prioritization of those needs.

24 So you're right, but we don't have an
25 active campaign, but we understand that others in

1 the industry are trying to pursue those political
2 means, yes.

3 COMMISSIONER BOYD: Okay, and then
4 moving back one slide to potential restraints in
5 marine access and the MOTEMS, which is a function
6 of the State Lands Commission, your recommendation
7 is to monitor the impacts of MOTEMS< which is
8 fine.

9 But this is a sister state agency, and I
10 would imagine just as a matter of a course of
11 business between state agencies it would be fairly
12 easy to work closely with state lands on that
13 subject.

14 Are you suggesting an even more
15 formalized approach to dealing with the MOTEMS and
16 discussion of issues between various state
17 agencies?

18 MR. SCHREMP: I don't believe staff is
19 suggesting a more formal process. On a staff to
20 staff basis we believe we have an excellent
21 working relationship with the State Lands Marine
22 Division. We have received very valuable and
23 important information from this agency.

24 We have discussed in great detail their
25 MOTEMS standard, and had meetings on this very

1 subject. And both are looking to the future to
2 see what kinds of impacts actually fall out of
3 this whole process.

4 But we believe that the amount of time
5 State Lands Commission is allowing people not only
6 to prepare their plan of how they will achieve
7 compliance with standard but also the time period
8 they're allowed to achieve compliance, both are I
9 think quite flexible.

10 State Lands should be commended on that,
11 so I think what we're going to be doing is
12 continuing our strong working relationship on the
13 staff-to-staff level, and then informing
14 Commissioners when appropriate, when we think
15 something that may be nearing that needs your
16 attention.

17 But we would happy also to prepare
18 periodic updates on progress towards compliance as
19 well.

20 COMMISSIONER BOYD: Well, you recommend
21 an arbitration mechanism, which is a pretty strong
22 issue, and I just wanted to make sure that every
23 rung on the ladder has been tried before you get
24 to formalizing something like an arbitration
25 mechanism, which could take years in and of itself

1 to arbitrate and establish. But, okay.

2 All right, thanks Gordon.

3 MR. SCHREMP: Thank you for your
4 attention this morning as staff gave their
5 presentation, and we have some other presenters
6 who would like to come up. Some of them have some
7 visual aids. I think we have some individuals
8 from Baker and O'Brien here today?

9 COMMISSIONER BOYD: Gordon, while your
10 trying to multi-task and prepare the next
11 presentation for the audience, I just want to toss
12 out a question for you and for any other speaker
13 who might want to address it.

14 Last December the National Commission on
15 Energy Policy produced their report on the broad
16 subject of energy, just like this Commission's
17 trying to address all facets of energy.

18 And in the area of petroleum, and their
19 addressing of energy security and vulnerability of
20 oil supply disruptions and price shocks, etc., the
21 Commission recommended increasing and diversifying
22 world oil production while expanding the global
23 network of strategic petroleum reserves.

24 And I'm just curious as to whether
25 anyone has detected any movement at all on this

1 recommendation or what it might even mean to
2 California.

3 So, I just throw that out there, any
4 comments you might have or any other speaker has,
5 I'd be curious about.

6 MR. SCHREMP: Now, if we're referring to
7 a strategic petroleum reserve for crude oil, this
8 country does have one, it has been putting crude
9 oil into it. But with regard to other countries,
10 they do have their own SPR, and do fill them to
11 varying levels.

12 And I have not heard in California of
13 anybody looking at maybe expanding the strategic
14 petroleum reserve for the United States into other
15 areas, such as say California. I'm not aware of
16 that, but industry may be better able to respond
17 to that question.

18 MR. SIRUR: Good morning. My name is
19 Dileep Sirur and I'm with the consulting firm of
20 Baker and O'Brien. We are located in Dallas, and
21 we are an energy consulting firm. And I'm here on
22 behalf of Pacific Energy to quickly review with
23 you a study I recently did for them, or we
24 recently did for them, the title of which is The
25 Outlook For Crude Imports Into California.

1 The scope of our work, as you can see on
2 the screen, we looked at both historical data and
3 future projections. We looked at 1995 through
4 2004 for all of PADD5 by source and disposition.

5 And the crudes that we looked at were
6 A&S, California, and imports. And then we
7 identified our estimated the imports by source
8 region, and then we also did what we call a
9 validation of our work by making an approximate
10 assessment of what each refinery ran, so that we
11 could maintain some kind of a balance.

12 For a projection we went about 15 years,
13 and did the same thing in effect for PADD5, for
14 these three crudes and imports, again by source
15 region and by refinery and by California to
16 validate our assumptions.

17 A couple of other things we did, and
18 these we really briefly touched upon, and these
19 are not in as much detail as they are supply and
20 demand work that I'll be showing you in a minute,
21 but one of them was we were concerned that our
22 forecast increase in refinery runs maybe higher
23 than the increase in demand for product.

24 So we did a quick check on some
25 published information from the EIA, to assure

1 ourselves that that was not the case.

2 And the other assessment we did was --
3 and this is secondary -- there's a lot of crude
4 being produced all over the world these days in
5 increasing quantities called high ten crudes or
6 high acids crudes.

7 And these crudes are especially
8 difficult to run in most of the refineries in the
9 world, but they do have a place in California, and
10 I'll talk about this towards the end of this
11 presentation, and so that may give us some
12 opportunities here for bringing these crudes in as
13 imports.

14 Now I'm going to talk about the key
15 assumptions that we made in going through our
16 analysis, and I think you'll note that several of
17 them have differed from some of the assumptions
18 that I saw in the previous presentation.

19 But these were our assumptions, and I
20 think that we fully understand that assumptions
21 can change.

22 But we started with A&S crude oil, which
23 is one of the key crude oils coming in to PADD5.
24 The current production of about 940,000 barrels a
25 day, we assumed that would decline by about three

1 percent a year.

2 And that decline is consistent with what
3 the state of Alaska is projecting. It's kind of
4 divided into the first half of the period is
5 about, under two percent a year. And the second
6 half of the period is over five percent a year
7 decline.

8 COMMISSIONER GEESMAN: Does that make
9 any assumption about ANWAR production?

10 MR. SIRUR: I'll get to that in a
11 second. Let me tell you, it does have an
12 assumption, sir, about ANWAR. ANWAR is not
13 included in there.

14 And we made a quick check about the
15 schedule for ANWAR, which I'll show in the next
16 slide, which leads up to conclude that it is
17 unlikely to affect the forecast that we have here,
18 at least through the period that we forecasted.

19 The other thing we did, and this is to
20 get a distribution in the future, we looked at A&S
21 as the production declined. We first provided it
22 to Alaska, Hawaii and the Pacific Northwest. And
23 we kept those requirements fairly steady. We
24 didn't decline those requirements, and
25 historically that's been the case.

1 And the reasons are, for most of
2 Alaska's needs are inland, and you can't get any
3 of the crude out there. Hawaii is less than
4 30,000 barrels a day, so we kept it there, we said
5 that we may need it for some strategic reasons and
6 just the difficult marine import logistics in the
7 Pacific Northwest.

8 And another point, calcined coke
9 production, and A&S is needed for calcined coke
10 production. And much of that A&S that's used in
11 the Pacific Northwest goes towards calcined coke
12 in that area. It would kind of tend to keep A&S
13 in that area.

14 After that, we said that the balance
15 went to California, with some preference given to
16 northern California. And I'll talk to that later
17 as to why I did that, because we felt that the
18 southern California refiners appeared more poised
19 to be weaned away from A&S than the northern
20 California refiners were.

21 And with respect to your question, sir,
22 about ANWAR, in talking with the folks from Alaska
23 just a few days ago, we heard that it wouldn't be
24 expected -- if it was approved at the end of this
25 year, by 2006, it would take about ten years for a

1 variety of things to happen before it even started
2 up.

3 And once started up it wouldn't expect a
4 sudden increase in volume, but a gradual increase
5 in volume. So if it started up in about 2016 you
6 wouldn't get your full volume until about 2021.
7 So, given that we felt that, at least for southern
8 California we wouldn't have that affect. We might
9 have some small amounts show up towards the end of
10 our period, but we didn't do a detailed
11 calculation to that.

12 And as more definitive numbers come up I
13 think we'll be looking at our analyses again.

14 With respect to California crude, based
15 on what we see currently, we expect that
16 production would decline about three and a half
17 percent a year. And this is based on, we looked
18 at the last two years, and it's declined four
19 percent approximately both of these years, even in
20 the environment of rising crude prices.

21 So we just felt, without doing a lot of
22 research here into it, we just felt that the three
23 and a half percent, based on recent history and no
24 reaction to prices, would be a good number to use.

25 We also started off by saying that

1 Bakersfield and San Diego areas will always get
2 California crude because they don't have access to
3 any other crude. So we kept that flat. And the
4 balance was sent to northern and southern
5 California.

6 And we went through the same process, we
7 gave somewhat more to northern California than to
8 southern California. Again, this is a recognition
9 of the logistical difficulty of bringing in
10 imports into the Bay Area relative to southern
11 California.

12 Now with respect to refinery runs, we
13 increased it by, we started off by saying there
14 was a capacity creep of about one and a quarter
15 percent per year, and that's based on what we're
16 hearing in the industries these days, both for the
17 Gulf Coast and the west coast.

18 They're getting, with the profitability
19 they're saying they want to improve their
20 capacities as rapidly as they can. It may be a
21 little bit too aggressive, but I've talked to some
22 of the people in the industry and they seem to
23 feel that it's, you know, not an unreasonable
24 number.

25 We've also assumed, over the short-term,

1 over the next two to three years, that they'd be
2 about 50 to 55 thousand barrels a day of capacity
3 added in the near term, so we incorporated that as
4 well.

5 Going back to that percent and a quarter
6 per year capacity creep, that in effect also
7 includes any additional expansions which we haven'
8 been able to identify.

9 With respect to crude imports, they're
10 currently being sourced from the Mideast, Latin
11 America, a little bit from West Africa, and some
12 from the Pacific Rim and some from Canada.

13 We kept those base levels for 2004, we
14 started with that and just escalated them at the
15 one and a quarter percent a year, and kept that
16 mix constant.

17 And then, as we found an increasing
18 shortfall of A&S in California crudes, we made
19 them up with additional imports.

20 And just as a general rule, and we
21 didn't do that in every instance, we replaced A&S
22 typically with the Middle Eastern crudes, and
23 replaced California crude generally with a
24 combination of crudes from all the regions, with
25 emphasis on Latin America and the Middle East and

1 some West Africa and Canada. And for the northern
2 refineries the Pacific Rim as well.

3 Just a little point here. The Canadian
4 crudes that are coming in, we've seen a
5 significant increase in Canadian crudes coming in,
6 and that's based on these synthetic crudes which
7 will be pipelined from the Edmonton area to north
8 of Vancouver and then shipped from a deep water
9 terminal.

10 About two thirds of it would go to the
11 Far East and about a third of it to southern
12 California. And we expect that to start up about
13 2010, and eventually be around 120 to 150 thousand
14 barrels a day coming in to southern California.

15 West African crude, the same thing.
16 Mostly into southern California, high ten crudes
17 which may be undesirable elsewhere, at about the
18 same levels.

19 With those assumptions now, we've got
20 some graphics to show how our history and our
21 forecast would look. Our history is from '95 to
22 2004, and our forecast goes from 2004 to 2019.

23 The bars here start with import A&S from
24 California, and a little bit of crude from Alaska
25 very early in the history.

1 And we've kept the imports and the A&S
2 next to each other because they represent the
3 water-bound sources, both represent the water-
4 bound sources. So the addition of them is what
5 would be delivered by vessels.

6 And from that we took the imports and
7 broke them out into where they were going. Again,
8 the history and the forecast. As you can see, the
9 import increase is dominated by California, and
10 that's because of our assumption that the A&S
11 requirements of the other regions are going to be
12 relatively constant. But the bulk of it is in
13 California.

14 Here we just tried to look at where
15 these imports are going to come from. And again,
16 if you look at the very source of the Middle East,
17 West Africa, Pacific Rim and Canada, and then you
18 look at the history and the forecast, the forecast
19 is dominated again by the Middle East.

20 A steady increase in Latin America, and
21 relatively small amounts but equal from all the
22 other three regions.

23 COMMISSIONER BOYD: Could I ask you a
24 question here before we go any further here. On
25 the subject of Canada I've been pondering your

1 data through the last few slides on Canada.

2 And while I have no Canadian oil sense,
3 one it's the first time I've heard reference to
4 tan as a inhibitor or problem to be dealt with,
5 and I have no basis to believe one estimate over
6 another, but your estimate of Canadian imports is
7 probably the lowest I've seen of recent date, with
8 respect to what would end up coming into
9 California.

10 And I have no basis to question your
11 estimate, I'm just kind of registering that as an
12 issue. Various representatives of Canadian
13 provincial government and Canadian oil industry
14 and pipeline industry, etc. etc. have visited here
15 frequently and are always more optimistic.

16 Of course I realize that salespersons
17 are always more optimistic. But nonetheless, this
18 is the least amount of oil to come to California
19 from Canada that I've seen before, and I note that
20 for the record.

21 MR. SIRUR: That's a good point, but,
22 you know, I questioned that, and when I talked
23 with the folks who are, I believe, promoting these
24 pipelines. And their current thinking is that by
25 2010 they'll be shipping about 400,000 barrels a

1 day, and about 250 of that will go to the Far
2 East, and they'll get 150 into southern
3 California.

4 And I did ask them why don't you move
5 more into southern California? And I think it's a
6 matter of quality, because these crudes that they
7 expect to get through that is -- it's heavy, which
8 we can deal with, but it's about 3, 3 and a half
9 percent high in sulfur, which is quite a bit
10 higher than the mix that we have here.

11 So that the heavier crudes that we seek
12 would have to be balanced in such a way that the
13 sulfur of crudes from Canada would be mitigated,
14 so they themselves felt that the upper limit of
15 their market was about 150,000 barrels a day.

16 COMMISSIONER BOYD: Thank you.

17 MR. SIRUR: Sure. Now this is on A&S,
18 just looking at the history and future for A&S,
19 and where it's coming from. The production is the
20 top one there, and the disposition are the colors
21 in each bar.

22 And again, we kept it very flat in the
23 Pacific Northwest and Hawaii and Alaska, so the
24 decline really occurs in California. And it's
25 hard to see here.

1 Perhaps we'll just go to the next slide,
2 which shows the forecast period. By about 2016
3 southern California stops receiving any A&S, and
4 by 2018 northern stops receiving any A&S as well.

5 With respect to California crude
6 production we did the same thing, history and
7 forecast. And here you see that the requirements
8 for central California are flat, declines in
9 northern California are less steep, and the
10 majority of the decline is taken in southern
11 California. And this is just an extension of the
12 same graph.

13 So what we see here, just a quick
14 observation for PADD5, future imports will be
15 dominated by imports. Imports will be over two
16 million barrels a day, which is about 78 percent
17 of crude runs. And that compares with just about
18 35 percent of crude runs today.

19 The Middle East will, is today and will
20 continue to be the primary source, we're
21 representing about half the import. And A&S crude
22 oil runs, as I showed, will be eliminated towards
23 the end of our forecast period.

24 But California crude production will
25 still be there, even at the end of our period will

1 still be about 400,000 barrels a day.

2 And now we're going to focus just on
3 southern California and northern California. We
4 looked at PADD5.

5 And southern California, if you look at,
6 this shows the three different types of crudes and
7 the top of which is crude runs. Again, your
8 imports are going up dramatically as California
9 production drops and A&S supply drops.

10 And this, again, like for PADD5, these
11 are the import sources for southern California
12 historically and in the future. What you see here
13 is the, again with the Middle East dominating, you
14 see Canada right at the top there increasing. And
15 that's the heavy Canadian crude that I talked
16 about a little bit earlier.

17 The purple line on top, which shows West
18 African crudes, and those we would expect to be,
19 again they're sweet crudes, but they're very high
20 in tan, which may make them compatible for our
21 refineries here.

22 And Latin America will be a steady
23 source, which will be increasing at some steady
24 rate.

25 Now, just to justify or rationalize the

1 fact that we've declined A&S use in California so
2 rapidly, one of the things we did was take a look
3 at history for both southern and northern
4 California, and this shows the use of A&S from '95
5 to 2004 for the two major players, and then for
6 the rest of the refiners.

7 BP Carson Arco, before the year 2000,
8 you can see their runs ran from 235 to, down all
9 the way to a little above 160,000 barrels a day.

10 Chevron actually eliminated the use of
11 A&S between '95 and '99, after having run almost
12 100,000 barrels a day in 1999. And we believe
13 that this trend with respect to BP Carson will
14 continue.

15 So, these are observations from what
16 we've seen from California. Again, the supply
17 will be dominated by imports, and by the end of
18 our forecasting period imports will be over a
19 million barrels a day, which represents about 90
20 percent of total crude runs versus a current level
21 of about 41 percent of crude runs.

22 The Middle East will continue to be the
23 primary source of imports, about half of crude
24 imports will be from the Middle East. And which
25 is kind of the way they're running right now as a

1 matter of fact.

2 And we talked about these new Canadian
3 crudes getting up to about 130,000 barrels a day,
4 the West African crudes to about 140,000 barrels a
5 day, and Latin American will go up from its
6 current level of about 160 to about 280,000
7 barrels a day.

8 We don't believe there will be any
9 significant Pacific Rim imports into southern
10 California.

11 And as we talked about a little bit
12 earlier, the A&S use will decline steadily and
13 we'll eliminate it in about 2016.

14 Let's talk a little bit more about the
15 BP situation. They currently use about 85 percent
16 of the A&S that's used in southern California.
17 Their share of production is dropping faster than
18 the average decline. They're not a future major
19 player in Alaskan oil exploration. I think you're
20 seeing several of the other majors still there but
21 BP appears to have retrenched in there.

22 And they're big in the calcined coke
23 business, particularly in the Pacific Northwest,
24 where they have a big refinery, and to a lesser
25 extent in southern California. And right now my

1 understanding is they're purchasing A&S crude,
2 they don't have enough from their own system.

3 So as production drops I believe that
4 they will preferentially run their A&S at the
5 Pacific North refinery and get away from the
6 calcined coke business or minimize the calcined
7 coke business in the southern California
8 refineries.

9 Now, as they've done in the recent past,
10 they'll continue to substitute with impulse, which
11 they seem to have done quite well. Other users
12 are small and could I believe substitute without
13 any problems.

14 With northern California, I'll go
15 through this real quickly, it's a repeat of the
16 same format. Here we show the crude oil supply
17 with imports again starting to dominate with A&S
18 in California production dropped.

19 These are the sources here of imports.
20 What you see here is the Middle East dominating
21 again, Latin America playing a significant role,
22 West Africa and Canada, we don't expect them to
23 play a significant role here but you see that top
24 area in pink, that's the Pacific Rim crudes, who
25 believe that some of high ten Pacific Rim crudes

1 could find their way into northern California.

2 This slide here is, again with respect
3 to A&S supply and how people have declined the use
4 of it. You see the same thing happening in
5 northern California as it has been in southern
6 California, so we believe that the elimination of
7 A&S is not a significant challenge.

8 With respect to imports we see exactly
9 the same story with lesser scale in northern
10 California. So I won't read through all these
11 percentages, but the point I want to make is that
12 the Pacific Rim crudes could increase
13 significantly since you can get some low sulfur
14 high tan heavy crudes from there.

15 And A&S will decline at a slower rate in
16 southern California because there may be some
17 resistance to change that we didn't see in
18 southern California, which we've listed out here.

19 And finally, California crudes will
20 continue to play a significant role there with
21 200,000 barrels a day.

22 This is just a quick bar chart of
23 central California, and you can see that central
24 California is using a steady and increasing amount
25 of California crude, which takes the California

1 crude away from the north and the south.

2 Now, that concludes the supply demand
3 part, and I'll very, very quickly go through this
4 last part here, since this is not really our
5 projections.

6 But we looked through some DOE
7 projections which said, the most recent ones for
8 2005 annual energy outlooks came out of that,
9 these are not our projections, that the Pacific
10 Region, of which 75 percent reaches California,
11 the fuel demand will increase about 1.9 percent a
12 year on an average basis through 2020.

13 So we thought that would probably be
14 about the same for California. This projection
15 has incorporated the growth of alternative fuels
16 and increased mileage efficiency. And new car
17 sales are increasing, but according to the DOE
18 they're only 20 percent of new car sales by 2020.

19 Hydrogen fuel cell vehicles are going to
20 account for a negligible amount of the population
21 by 2020, and traditional gasoline and diesel
22 vehicles, which make up about 97 percent of the
23 population today, will only be lowered to a little
24 less than 90 by 2020.

25 So really what we see out here is, well,

1 what we are testing for -- and let's just go to
2 the second paragraph.

3 They're projecting refined product
4 demand growth of 1.9 percent, which we kind of
5 compared with our projected refinery capacity
6 growth, which is, we calculate at about 1.6
7 percent, which is 1.5 percent a year in capacity
8 creep and then the initial additions we made make
9 it 1.6 percent, but it's still below that, so we
10 kind of bested that and said that there would
11 still be additional product imports needed, even
12 with this growth.

13 And of course if oxygenates were
14 eliminated from car gasoline you'd create another
15 supply deficit which would, you would arguably
16 need some more refining capacity.

17 MR. LOVELL: Can I ask, while you talk
18 to me about it, in terms of your assumption for
19 refinery creep at 1.25, you said refinery creep
20 plus additions. What kind of additions are you
21 assuming there?

22 MR. SIRUR: Well, additions would be --
23 and the way I look at refinery creep is just
24 basically just try to get more and more out of the
25 same equipment, without really adding any new

1 facility.

2 And since we don't know as we go into
3 the future who's going to be doing what, we just
4 up that by about a quarter percent to reflect some
5 new additions over and above their being able to
6 think of with their own existing facilities and
7 going up at a one percent rate.

8 MS. JONES: Thank you.

9 MR. SIRUR: Well, I think we've talked
10 enough about the issue of tan, so this first slide
11 just describes it. And what it is, it's a measure
12 of productivity, and anything above 1.0 makes it
13 difficult to process in the typical carbon steel
14 distillation columns and you need some stainless
15 steel planning in them to be able to process them.

16 And most of the refineries in the world
17 don't have it. And you can do it by chemical
18 treating, but that's costly and has to be closely
19 monitored and you don't want to do a chemical
20 treatment and then find out you have a problem
21 with your equipment, so nobody uses that and
22 nobody plans on using that.

23 And it has become kind of a significant
24 issue right now. There's a lot of crudes in this
25 category that are being produced in West Africa,

1 China, Canada, and to some extent in Venezuela,
2 and we've talked about that.

3 There is, according to some of the
4 forecasts I've seen they could be increasing to
5 well over more than half a million barrels a day
6 in each area. And there's not much capacity to
7 handle these crudes, so you could get some quality
8 discount refiners who are able to use them could
9 get some quality discounts.

10 And we believe that the refiners in
11 California generally are well poised to exploit
12 this potential opportunity. And here's what it
13 is. If you look at California crudes, their tan
14 level is comparable to the tan levels of the
15 crudes in the world market, and I'll show you that
16 on this next graph.

17 The first two crudes at Kern and
18 Wilmington are going to be typical benchmark
19 California crudes, and the other three, the second
20 one is the Canadian crude that we were talking
21 about earlier, and the other three are kind of
22 typical crude that you see today from the Pacific
23 Rim, from China and two from West Africa.

24 And if you look, the gravities range
25 from about 13 to 22, and the sulfur quantities

1 range from about, some of them are sweet, from .2
2 all the way to 3, 3 and a half.

3 If you look at the bottom line there,
4 the acid number, and look at Kern and Wilmington,
5 and recognizing that 1.0 is the upper limit,
6 they're pretty high in tan, 3.1, 3.2, and
7 comparable to all the other crudes that we see on
8 this list.

9 And once you get to a level above one
10 you basically have to put in the equipment such
11 that you can go to some very high tan levels. And
12 because of the high tan of California crude many
13 of the refineries in California are equipped today
14 without any retrofitting, to be able to run high
15 tan crude.

16 And a quick look says that, if you'll
17 look at our second bullet here, that in southern
18 California a little over 60 percent of the
19 refinery capacity can handle it. In northern
20 California a little under half. And all of the
21 capacity in central California can handle it.

22 And of course the point is here that the
23 West African and Chinese tan crudes are -- another
24 point is that these West African and Chinese high
25 tan crudes have some advantages in that they are

1 low in sulfur contents and will mitigate against
2 the high sulfur contents of the other alternatives
3 that we have as potential imports into California.

4 So that pretty much concludes my
5 presentation. I'll be happy to answer any
6 questions if anyone has any.

7 COMMISSIONER GEESMAN: I guess just the
8 general observation that you're refinery creep
9 number is substantially larger than that assumed
10 by our staff.

11 MR. SIRUR: Right.

12 COMMISSIONER GEESMAN: Yours seems to be
13 based on a more recent snapshot of historical
14 experience. Given your professional judgment,
15 looking at this industry going forward over the
16 next 10 or 15 years, how far off do you think our
17 staff may be?

18 MR. SIRUR: That's kind of hard for me
19 to make that assessment, because typically what I
20 would use both for, for any part of the US the
21 rule of thumb in the past was one percent a year.
22 And the reason I added a quarter on top of that
23 was because one percent a year was just existing
24 refineries increasing their capacities without
25 adding substantial equipment.

1 I increased that by a quarter because of
2 unknown additions that will be taking place. I
3 think California in the past has been lagging in
4 the increase in creep. I've heard numbers like
5 8/10th's, 9/10's of a percent. So I would say
6 something like one percent or so would not be much
7 different from my 1.25 percent, given that the
8 differences are additions that have not been
9 incorporated.

10 Which I think have been addressed by
11 your reports as well.

12 COMMISSIONER GEESMAN: Well,
13 historically though refining margins have been
14 pretty poor. I'm not certain if we've experienced
15 a secular change in that or not, but I know in the
16 last 12 months they've been quite good.

17 You also see some major consolidation in
18 the refining industry with tenders being made for
19 other public companies. That would suggest, I
20 think, that the economic motivation for greater
21 refinery creep may be there right now.

22 MR. SIRUR: Yes, absolutely. In fact, I
23 was at the NPRA annual meeting in San Francisco in
24 March and I believe the CEO of Sun Oil, Jack
25 Drosdick, who used to head up UDS at one time, in

1 LA, he gave a talk saying that the one percent
2 capacity creep that we use now should really be
3 examined.

4 I believe it's going to be higher in the
5 future. I also recently saw a Q&A where a senior
6 executive, a senior refining executive of a
7 company which has a refinery in California said
8 that their company expects about a percent creep
9 everywhere, but they also expect to add 100,000
10 barrels a day of refining capacity by 2009, half
11 of which will be on the West Coast. So there is a
12 certain amount of optimism there.

13 COMMISSIONER GEESMAN: Thank you very
14 much.

15 COMMISSIONER BOYD: Another observation.
16 Your observation about the continued emphasis on
17 the purchase of SUV's is unfortunately depressing
18 for such a scenario as we've laid out here today.
19 And the other observation is, in spite of I guess
20 almost three decades now of allegedly national
21 energy policy to reduce our dependence on foreign
22 oil we just continue to drive that issue in the
23 wrong direction more mightily.

24 So, we have quite a dilemma on our
25 hands.

1 MR. SIRUR: Yes. Thank you.

2 COMMISSIONER GEESMAN: Thanks for your
3 presentation. Gordon, what's next?

4 MR. SCHREMP: Our next speaker is Joe
5 Sparano of the Western States Petroleum
6 Association. And Joe, I believe you have a slide
7 for a visual?

8 MR. SPARANO: Good morning,
9 Commissioners and advisers and members of the
10 audience. My name is Joe Sparano, and I'm
11 President of the Western States Petroleum
12 Association or WSPA. WSPA is a trade association
13 that represents 26 companies that explore for,
14 produce, refine, transport and market petroleum
15 and petroleum products here in California and in
16 five other western states.

17 I would like today to share WSPA's
18 comments and suggestion related to the CEC's
19 report on petroleum infrastructure needs.

20 First, on behalf of WSPA I'd like to let
21 you know that we appreciate the comprehensive
22 evaluation contained in the infrastructure report.
23 We agree with what I believe to be the
24 Commission's principal conclusion, and I quote
25 "potential problems remain and further

1 infrastructure expansion will be required over the
2 next 20 years."

3 That's a fairly broad outlook and broad
4 comment, but I think either you believe that or
5 you don't, and in this case I think that's a very
6 sound conclusion that the staff of the Commission
7 has drawn.

8 Overall we believe that to best serve
9 Californians the state should focus on an energy
10 policy and infrastructure upgrade program that
11 supports the most constructive, the least
12 disruptive, and most cost-effective energy supply
13 improvement measures.

14 That includes keeping in place and doing
15 no harm to existing petroleum infrastructure
16 facilities, and adding new facilities where
17 they're required to meet California's growing
18 energy demand.

19 I have just two slides, and I think that
20 they illustrate some of the reasons why the
21 critical policy objective I just mentioned may be
22 in danger of not being realized. That's a pretty
23 strong comment, but I think what you'll see here
24 bears me out.

25 This first slide is an aerial photograph

1 that shows Los Angeles Harbor basically as it
2 looks today. It includes existing facilities that
3 are highlighted in the white boxes, plus
4 facilities in place today but perhaps in jeopardy
5 of being forced out of their existing locations.
6 These are highlighted in yellow and bordered in
7 red.

8 The photo also shows more than eight
9 million barrels of petroleum facilities that have
10 been closed or eliminated from the harbor. These
11 locations are, again, highlighted in yellow, but
12 this time with a white border.

13 That's a pretty busy picture, and with
14 all the yellow some concern about what might be
15 happening down the road.

16 (technical problems with slide)

17 What I wanted to show you is a slide
18 that delivers a copy of the Port of Los Angeles
19 Community Advisory Committee, or PCAC, port master
20 plan subcommittee. On April 12th they had a
21 notice and agenda, there is a document in there,
22 Item E, that shows the steering committee's
23 current recommendations related to LA Port
24 petroleum facilities.

25 And what I wanted to say is just take a

1 look at what the problems may be, and let me just
2 see if I can do something here. . . . well, I'll
3 just have to describe it.

4 That motion calls effectively
5 eliminating all bulk liquid storage from the Port
6 of LA. And the way it's phrased -- and this PCAC
7 is a community advisory group that advises the
8 Port of Los Angeles -- and their advice at this
9 point, in the form of a recommendation, is that
10 all bulk liquid storage that exists in LA Harbor,
11 in certain locations -- which is basically all the
12 locations where bulk storage is currently placed -
13 - be relocated.

14 A major problem is that there does not
15 appear to be much if any land available to
16 relocate any of those facilities. In which case,
17 if that was carried through, it would represent a
18 significant loss of storage. And as you've heard
19 all morning, the forecast is a need for more
20 storage, not less. So we see that as a potential
21 problem.

22 Another subcommittee of this PCAC group,
23 the EIR subcommittee, on April 28 approved a
24 motion -- I won't read it, I have it here in
25 quotes -- but basically they've said no new

1 environmental impact reports or impact statements
2 will be processed or approved until such time as
3 the port planning staff brings to the PCAC a plan
4 to have any and all new facilities meet a no net
5 new emissions standard that the city of Los
6 Angeles and the Mayor's Office have proposed.

7 That would effectively stop everything
8 in progress now, and any projects that is
9 proposed.

10 And I think those local policy
11 initiatives have the potential to eliminate
12 critical portions of our state's energy
13 infrastructure. And in fact they need to be
14 managed from a state perspective, or we may be
15 facing real economic problems.

16 I have some specific recommendations and
17 suggestions related to the report's key
18 assumptions and recommendations. I'd like to
19 share them with you now.

20 First, we feel it's very important for
21 the CEC to stay engaged in energy infrastructure
22 issues as the state's energy steward. We believe
23 the Commission needs to offer perspectives on
24 local decisions that impact whether the future
25 energy needs of the entire state will be met.

1 In addition, WSPA feels that the State
2 Lands Commission could also play an important role
3 with the CEC in engaging as an energy steward in
4 port areas. That makes a lot of sense to us since
5 State Lands is the ultimate owner of the state's
6 assets in those locations.

7 Second, the report's basic underlying
8 demographic and economic assumptions may need to
9 be re-evaluated, and there have certainly been
10 some very good questions this morning about those
11 assumptions. Let me go through them again.

12 The key assumptions, if I understood the
13 report correctly and this morning's presentations,
14 include lower population growth, lower levels of
15 immigration, lower birth rates, higher fuel
16 prices, and implementation of the state's new
17 greenhouse gas regulations.

18 There is also a key assumption, an
19 important assumption, that all existing marine
20 infrastructure will remain in place. I think I've
21 characterized them correctly, and that all
22 underlies a forecast that says there will be less
23 of a need than was perceived when the 2003 IEPR
24 was produced, but still an important need.

25 Those assumptions that I just read you

1 all support the forecast of lower demand for
2 petroleum products. If any of them turns out to
3 be wrong then the demand forecast turns out to be
4 wrong as well.

5 If that's the case, then the need to add
6 new marine infrastructure and to protect existing
7 infrastructure will be even greater than is
8 reasonably called for in the report.

9 And even if these conservative
10 assumptions are all correct, the gap between
11 expected and state supplies of both crude and
12 products and demand for those materials is still
13 large.

14 We saw a slide earlier, whether we
15 describe the Energy Commission's role as a
16 facilitator, a process improver, permit completion
17 specialist, or dispute resolution adviser -- and
18 at this point I ran out of fancy names for that
19 position, but facilitator probably does the trick
20 -- the CEC is the state agency charged with
21 ensuring that future demand is met with adequate
22 supplies.

23 And from our perspective that includes
24 preserving existing facilities and addressing the
25 increasing role of imports, and I think that you

1 have done a fine job of that in your report.

2 WSPA supports the development of a best
3 permitting practices guideline, which is one of
4 your recommendations, one that capitalizes on
5 permitting processes that streamline and expedite
6 the ability to increase energy supplies without
7 compromising environmental protection.

8 This guideline document should be
9 developed in conjunction with local decision
10 makers, because the folks who live around and near
11 the affected areas will want to and should have a
12 say in what goes on in their communities.

13 WSPA opposes policies that call for
14 reducing demand for the cleanest burning petroleum
15 fuels in existence by arbitrary amounts, and
16 therefore reducing the potential for investment
17 that has been talked about here this morning,
18 investment in additional production capacity.

19 Although this report does not place as
20 much emphasis on the CEC's previously stated
21 policy of reducing gasoline and diesel fuel demand
22 by 15 percent from 2003 levels by 2020, we
23 continue to oppose any efforts to reduce demand
24 while California's supply-demand imbalance
25 increases.

1 Alternatively, we do support a petroleum
2 plus approach to California's energy supply
3 security future. This means increasing clean
4 burning supplies while promoting a diversified
5 energy portfolio, including funding research and
6 development of cost-effective alternative fuel
7 solutions that are not mandated or subsidized.

8 In fact, some of the WSPA members are
9 already developing alternative fuels that will
10 augment the state's existing clean energy
11 supplies.

12 One point that was raised earlier I'd
13 like to address. And that is that WSPA does not
14 support government intervention in the
15 marketplace, and therefore we question the benefit
16 of establishing an arbitration mechanism for
17 independent traders to resolve perceived access
18 issues.

19 I think here's a classic case where the
20 free market should serve as the arbitrator of arms
21 length business transactions and not the state.
22 And if I remember correctly, the Commissioners
23 seem to offer the same cautionary note.

24 Assigning of LNG facilities on the West
25 Coast is another critical piece of expanding the

1 state's energy supply infrastructure. The
2 Governor has stated that he supports efforts to
3 expand the state's energy capacity by permitting
4 new LNG facilities in California or in cooperation
5 with Mexico.

6 The CEC should follow through on the
7 Governor's position and ensure that LNG facilities
8 are given fair and robust consideration in the
9 development of California's future energy
10 infrastructure.

11 Finally, I do find it curious that the
12 Commission is still recommending a statewide one
13 stop permitting process for petroleum
14 infrastructure. The report, in its body, clearly
15 indicates that when stakeholders were polled, if
16 you will, there really is no support base for this
17 recommendation.

18 And the unfortunate part is that many of
19 those stakeholders see it as an attack on local
20 control. And our concern is really that, with
21 that much local opposition, it could jeopardize
22 the good work and the really fair analysis that
23 the CEC has done on this part of your assignment
24 for the 2005 IEPR.

25 Those are my comments for today. I want

1 to thank the Commissioners for giving me the
2 opportunity to speak about the infrastructure
3 report.

4 WSPA supports the Energy Commission in
5 its efforts to ensure that every California
6 customer continues to have daily access to an
7 affordable supply of energy products. I think our
8 state's well-being depends on it.

9 This is a set of products that does fuel
10 the economy of California, and as Commissioner
11 Boyd has said many times, this is a big economy,
12 the fifth largest in the world, and it needs a lot
13 of support, and we think that you have the means
14 to help economic goals to be realized by the way
15 you handle the development of future
16 infrastructure here in California.

17 I'd be happy to answer any questions.

18 COMMISSIONER GEESMAN: Well, Mr.
19 Sparano, I'm always amazed at the effort I have to
20 go through to reconcile some of the almost
21 visionary comments that your more enlightened
22 members parade about with respect to either demand
23 reduction or alternative fuels.

24 And some of your statements in our forum
25 -- and I just presume that some of your more

1 fundamentalist members are holding the pen as your
2 remarks are drafted -- but I do thank you for
3 drafting them in that favored old time religion of
4 belief in the free market.

5 I think as everybody in the room knows,
6 the supply of petroleum in the world is a long way
7 from the free market, and the presentations that
8 we've heard earlier today suggest that in
9 California in particular, with our increasing
10 dependence on the Middle East, it's likely to get
11 a lot less so related to the free market than it
12 has been in the past.

13 But rather than just trade sermons with
14 you, let me ask you -- you were in the room when
15 we had the two different estimates of refinery
16 creep, .5 percent from our staff, 1.25 percent
17 from Baker and O'Brien.

18 Professionally, you come from the
19 refining side of the business, and obviously
20 you're exposed to a lot of the discussion of your
21 members as to future refining investment plans.

22 In making an assumption as to what
23 refinery creep is likely to be over the course of
24 the next ten years, would you encourage us to be
25 closer to the .5 or closer to the 1.25?

1 MR. SPARANO: Let me answer that
2 question by not sermonizing, but reflecting on
3 some of your earlier comments in the beginning of
4 that question.

5 Most importantly, the members do not in
6 fact share with me, or anyone else in WSPA, what
7 their plans are for future growth or not. I think
8 that's an important fact for everyone to remember.

9 There's a huge antitrust issue at work
10 here, and very closely monitored and very
11 religiously adhered to. So if I -- I guess that
12 adds to the sermon, but those are the facts.

13 As far as the free market is concerned,
14 my reference to free market always means without
15 the intervention of government. And if there are
16 still arms length transactions between producers
17 and refiners, that's a free market. If there are
18 arms length transactions between suppliers and
19 marketers, that's a free market.

20 What we have seen repeatedly is that
21 government intervention in that process has caused
22 huge problems -- product dislocation, price
23 spikes. ?The evidence is there.

24 You and I are probably contemporaries,
25 you may have sat in the same gas line I did in the

1 station at Jersey City, New Jersey, waiting for
2 gasoline in the early 70's, a direct result of
3 price controls.

4 With respect to refinery creep, I don't
5 know how to forecast that, Commissioner Geesman.
6 I do have some observations though. Over the past
7 years, refiners have been I think pretty adept at
8 capturing incremental additions to their refining
9 capacity.

10 They've done that in a number of ways.
11 During turnarounds, when they have an opportunity
12 within their permit limitations to add capacity,
13 or simply to make their operations more efficient.

14 They do so with projects targeted to
15 have both an efficiency and a conservation
16 increment, as well as a capital return increment.
17 And those will continue. I think we may have
18 attacked the low hanging fruit in that
19 category. The second area that is always
20 ripe for refinery improvements is related to
21 technology improvement and process control. If
22 your process control equipment can examine the
23 variables a thousand times every second as opposed
24 to an individual playing around with pneumatic
25 controls, then that's a good thing.

1 And that process technology improves
2 every year. So on the surface I think there are
3 arguments either way, and I would not want to
4 venture a guess that would be different from
5 either of the esteemed forecasters that you
6 mentioned.

7 COMMISSIONER GEESMAN: Thank you very
8 much.

9 COMMISSIONER BOYD: Joe, a quick
10 question if I might. The fact that some of the
11 positions of this agencies and others relative to
12 the growth of the supply versus demand problem,
13 and the need to reduce our dependence, has led the
14 industry to constantly say that why would anyone
15 be interested in California in a climate where
16 government suggests we need to reduce over the
17 long haul our dependence on petroleum and move
18 more towards alternatives.

19 And yet we're having a debate about
20 refinery creep, which is more or less just
21 technological, but there's also the fact that over
22 the past two short years several of the more
23 independent refiners have seen fit to:

24 A, invest in California;

25 B, expand their refining capability; and

1 the most recent example of course is the Shell
2 refinery in Bakersfield that was going to be shut
3 down was picked up by an independent who now plans
4 to make some investment.

5 So I realize the antitrust provisions
6 you just mentioned make it hard for you to know
7 what independent companies plans on -- maybe this
8 is just more of an observation -- but it does seem
9 the investment climate in California is not as
10 dour or as poor as some people lead us to believe
11 it is.

12 And -- because people do see, as this
13 agency has said time and time again, that no
14 matter how hard we push for alternative fuels and
15 things like that, petroleum will be the dominant
16 fuel for years and years and years to come. So
17 why not meet the needs of the market.

18 So, I think that's just a statement to
19 indicate that we sitting up here who have to try
20 to be responsible to the people of the state,
21 struggle with, you know, what is the right course
22 of action to take, or who's view on what the
23 future is going to be is the view that we need to
24 follow.

25 And right now I struggle with the advice

1 or the comments that we get from the wide variety
2 of the organizations.

3 MR. SPARANO: Just an observation in
4 response to that. It has always troubled me why
5 anyone would expect investors who are working with
6 publicly traded companies and who are shareholders
7 of publicly traded companies would find an outlook
8 for an investment climate to be robust or rosy if
9 a state agency, and more importantly because there
10 is a proposal in our Legislature right now, to
11 mandate that 15 percent or more, it's open ended
12 at this time, of the products that we use every
13 day today and that the state and federal
14 government has mandated and refiners have
15 responded splendidly to make cleaner and cleaner
16 all the time, --

17 while we have a view that I think we
18 share actually that petroleum and petroleum
19 products will be around for some time to come and
20 will be needed, why would anyone want to put more
21 money into a system that could --

22 and we're not there yet, and that may be
23 an answer to your comment about why someone would
24 put more facilities in the past few years, why
25 someone in Bakersfield may or may not be planning

1 to expand a refinery that they just purchased --
2 if there is a law on the books that says that
3 demand, by state fiat, will go away, or by higher
4 taxes go away, I think that's a problem for any
5 rational investor to have to deal with.

6 And they'll make their own decisions as
7 rational investors. But it's an issue that has to
8 be dealt with.

9 On the other hand, I think I've made it
10 very clear on many occasions that our members are
11 deeply involved with and interested in producing
12 alternative fuels. We just don't like
13 conceptually and philosophically the idea of
14 subsidies and mandates.

15 But our industry is throwing hundreds of
16 millions of dollars into research on hydrogen fuel
17 cells, on gas to liquids technology, and in solar,
18 development of solar power.

19 I think those are good things. We've
20 said repeatedly that we support those. we're
21 putting our money where it needs to be. And
22 perhaps the notion that they're haven't been a lot
23 of investments --

24 I don't have the California specific
25 numbers, I've been trying to develop them, but, I

1 actually can't go and ask each company for the
2 data, we have to get it in a more blinded way.

3 Nationwide, the API has put together
4 numbers that show that in the last ten years the
5 industry, refinery, has spent one hundred billion
6 dollars on refineries.

7 One hundred billion, with 48 billion of
8 that going toward environmental regulatory
9 compliance. And when you think about that, that's
10 an awful lot of capital at the disposal of
11 companies that already has 50 percent of it
12 targeted to meet specific requirements.

13 So I think when you lay out the whole
14 landscape there may be more factors that need to
15 be considered, and hopefully with the industry
16 looking at alternatives as the way of the future
17 we will contribute to that as we've contributed to
18 cleaner petroleum products over the last years.

19 COMMISSIONER BOYD: I'm sorry to have
20 gotten us off so deep into tomorrow's subject.
21 Today we're talking about infrastructure, but
22 thank you for your comments.

23 COMMISSIONER PFANNENSTEIL: Joe, I just
24 have a couple of questions. You didn't want to
25 venture a guess on the refinery creep. But how

1 about on the demand estimate? We have a couple of
2 different demand estimates over that period of
3 time.

4 I think the high from Baker and O'Brien,
5 about 1.9 percent. And the staff's is between 1
6 and 1.5 --

7 COMMISSIONER GEESMAN: Actually, Baker
8 and O'Brien contributed that to EIA, in their 2005
9 Outlook.

10 COMMISSIONER PFANNENSTEIL: Yes, I'm
11 sorry, they didn't do their own, they got it from
12 DOE. Where are you in that?

13 MR. SPARANO: Commissioner Pfannensteil,
14 it's hard to believe, but the lawyers will not
15 allow, due to antitrust reasons, me -- despite 37
16 years experience working at some of the things you
17 just questioned -- I can't have an opinion. And
18 the reason is very simple.

19 There is a possibility that if I opine a
20 specific demand forecast someone would say "aha,
21 he got together with somebody and they talked
22 about it and he knows something we all don't
23 know."

24 So, with that caveat, which I must make,
25 unfortunately, I would like to observe that my

1 comments were directed in a larger way toward
2 observing that every one of the underlying
3 assumptions in the Energy Commission's report -- I
4 can't speak to Baker and O'Brien's because I don't
5 know what each and every underlying assumption
6 was, and I had to step out while Dileep was going
7 through his presentation, so I might have actually
8 missed it.

9 Every one of the Energy Commission's
10 assumptions is what I would characterize and did
11 characterize as conservative -- lower population
12 growth, lower birth rate, lower immigration,
13 higher price.

14 I don't have any reason to say any of
15 those is not correct, just that when you look at
16 them collectively they all argue for an
17 atmosphere, an environment that will produce a
18 lower demand.

19 But even in that your own staff has
20 said, despite that prediction, also based on
21 implementing the new greenhouse gas regulations,
22 there still is an alternative. And they've taken
23 in to good consideration that that alternative
24 could be the one that comes to pass.

25 And the answer in each case is the same.

1 The need for imports, the need for infrastructure
2 increases. And I'd really love to give you a
3 direct answer, I just can't. That's the best I
4 can do.

5 COMMISSIONER PFANNENSTEIL: That's fine.
6 One other clarification that I'd like. You talked
7 about the Port of LA PCAC group, and you said that
8 they had an initiative out of no new EIR approved
9 until, what had to happen? Existing facilities --
10 ?

11 MR. SPARANO: I wish, if you have your
12 IT expert here. I actually brought the motion
13 because I wanted to show you in their words, not
14 mine, but my computer illiteracy is being
15 broadcast live here to the entire world. I'm not
16 able to get that up here.

17 But what it says is that the PCAC --
18 which has no authority except one of
19 recommendation, but I think their recommendations
20 are viewed with importance -- their
21 recommendation, in the form of a motion to the
22 Port, says that until the port planning group
23 comes up with a plan that will result in any new
24 facilities meeting Mayor Hahn's objective of no
25 net increases in emissions, regardless of the

1 number and type of facilities that are installed,
2 until such plan is developed to the satisfaction
3 of PCAC, is the way it is worded, that no EIR
4 shall proceed.

5 That's pretty tough. And I think, I
6 don't know for sure, but my judgment is that
7 perhaps some of the existing projects may get
8 caught up in that as well, and I think some of
9 Gordon's slides showed one or more of the projects
10 that are currently being delayed for as much as a
11 year because of re-consideration by some of the
12 bodies in that port area.

13 The reason I referenced it and the
14 reason I wish I could get the computer to show it
15 is that that is a pretty frightening set of
16 circumstances if it comes to pass. That means
17 that facilities that are sorely needed won't be
18 developed because they are not able to go forward
19 in the very first portion of their evolution as a
20 project, and that is the EIR.

21 And when you look at the tanks --
22 Commissioner Geesman, you asked a really
23 perceptive question earlier about perspective on
24 tanks -- one tanker that delivers A&S crude,
25 180,000 dead weight tons is typical, that delivers

1 almost 1.3 million barrels of crude in one
2 arrival. One tanker.

3 I think your forecast has something like
4 500 tankers a year or more, Gordon, coming in to
5 the Port of Los Angeles? A very large crude
6 carrier, and if you believe I think everyone's
7 forecast that shows decline rates of California
8 produced crude, which are down to 42 percent of
9 refinery runs, and A&S crude, which is now down to
10 22 percent of California refinery runs, if yo
11 believe those decline curves, then you absolutely
12 must expect that larger vessels carrying foreign
13 imports will show up outside our harbors.

14 And some of those vessels, I'll pick a
15 small one, 250,000 dead weight tons, VLCC, that
16 delivers almost two million barrels of crude.

17 So you're looking at a real need for
18 storage facilities, in the form of both tanks and
19 therefore the land to put them on, loading arms
20 and docks if they're not configured right now to
21 handle some of the larger ships, and the pipelines
22 that are called for in the Energy Commission's
23 report, pipelines from the port locations to the
24 main pipelines systems into the refineries, all
25 will need some work.

1 So I perceive that if the group has the
2 ability to stop that effort in its first stage,
3 the EIR, that spells trouble for all of us.

4 COMMISSIONER PFANNENSTEIL: But yet,
5 Joe, you mentioned that you would oppose the
6 proposal for one stop permitting because you are
7 concerned that that overcomes, or that has local
8 opposition to it. And yet this is a local
9 opposition right here that you're asking us to
10 consider as being a difficult obstacle for you.

11 MR. SPARANO: I think, what I said was
12 WSPA finds it curious that the Energy Commission
13 still proposes one stop permitting in light of all
14 of the stakeholder input. I didn't say that I
15 opposed it.

16 In fact, some of our members like it and
17 some of our members aren't so keen on it. So that
18 leaves old Joe in the position of not having a
19 position, which is a place I find myself more than
20 I would like.

21 But Commissioner, I did word it
22 carefully to reflect more of an observation than
23 either a complaint or a disagreement. I'm not, I
24 don' have a firm position yeah or nay. I think
25 one has to take into account, as some of us saw in

1 some of the earlier visits to Wilmington and
2 Martinez, that there's a fair amount of community
3 enthusiasm if you will for having a big say in
4 what goes on in their areas. I think that's a
5 fair statement.

6 COMMISSIONER GEESMAN: Thanks, Joe.

7 MR. SPARANO: Thank you very much for
8 giving me all this time.

9 COMMISSIONER GEESMAN: Okay, I'm going
10 to go to the blue cards now. Jim Schepens from
11 Oiltanking.

12 MR. SCHEPENS: There you go. My name is
13 Jim Schepens, I'm VP of Commercial Development for
14 Oiltanking. First of all, I'd like to thank the
15 Commission and staff for raising this critical
16 issue of energy infrastructure in California.

17 My purpose in speaking to you today is
18 to inform the Commission and the staff about the
19 merits of another crude project that was not
20 mentioned in the staff report that is being
21 developed at Berth 124 in the Port of Long Beach.

22 I am providing you, and Gordon just
23 distributed it, a project summary that outlines
24 the scope of the project, and identifies several
25 of the advantages the project offers to our direct

1 customers, who are the refiners in California, and
2 our secondary customers, who are the citizens of
3 California.

4 Of those advantages mentioned in that
5 summary I'm going to mention two today. Berth
6 124, if it's successful, will bring a new service
7 provider to the state of California.

8 Oiltanking, for reference, is the second
9 largest independent terminal company in the world.
10 We have 70 terminals in 20 countries. We have
11 about \$750,000,000 in assets, and that includes
12 about 65 million barrels of tank capacity around
13 the world.

14 Our Houston terminal, for example,
15 handles over 650,000 barrels per day of
16 throughput. And included in that is 300,000
17 barrels a day of crude.

18 Marine logistics of liquid hydrocarbon
19 is our business.

20 Oiltanking agrees with the staff's
21 conclusion that only one new crude berth facility
22 will be needed in southern California. The direct
23 customer, the refiners, are going to decide what
24 that project's going to be, and they'll make that
25 final decision.

1 But the citizens of California are going
2 to live with that decision for over 30 years,
3 because that's the life of these terminals.

4 Berth 124 will ensure that two
5 companies, not one, will own and operate non-
6 refinery owned assets in the Port of LA.
7 Incidentally, Berth 124 is well positioned to
8 serve as Pacific Pipeline's marine terminal for
9 their current marine structure. And we would
10 certainly welcome them as a customer.

11 A second advantage of the Berth 124
12 project is that it will be linked to the LA
13 Basin's current VLCC berth at BP's Berth 121. And
14 it'll be linked by existing pipelines and by new
15 tanks.

16 Linked docks, as opposed to independent
17 docks, are synergistic. And by that I mean one
18 plus one does not equal two. In the case of
19 linked docks, one plus one equals two and a half
20 or three, because of the efficiency you get with
21 the docks.

22 Three refiners, now or in the future,
23 will require VLCC capability, according to our
24 conversations. And all three have access to Berth
25 121. By diverting smaller vessels now going to

1 121 to Berth 124, Berth 121 will become a VLCC
2 priority berth that will have more than enough
3 capacity to handle the refinery's future VLCC
4 projections.

5 This linkage means that the existing
6 infrastructure can be used more effectively, and
7 lower investment will be needed to serve the
8 market. The result is a lower cost to the
9 customer.

10 My request today is that the Energy
11 Commission and the staff recognize the Berth 124
12 project as an efficient and effective solution to
13 southern California's marine crude logistics.

14 And I'll be happy to meet with the
15 Commission or the staff at any time to go into any
16 of the other advantages and any of the details of
17 the project.

18 COMMISSIONER BOYD: Jim, I had a
19 question or two.

20 MR. SCHEPENS: Sure, please.

21 COMMISSIONER BOYD: The docking facility
22 would initially be designed to handle a Suez max?

23 MR. SCHEPENS: Correct. A Suez max is
24 about 120 to 150,000 dead weight tons, capable of
25 bringing, as Joe said, about one to 1.2 million

1 barrels of crude in one cargo.

2 COMMISSIONER BOYD: And that's got a
3 draft of 55 feet?

4 MR. SCHEPENS: Around 55 feet, correct.

5 COMMISSIONER BOYD: And when you mention
6 potentially upgrading to VLCC's?

7 MR. SCHEPENS: If we do that, what we'll
8 do is, we'll do the basic platform design with a
9 capability of upgrading it, but some of the added
10 infrastructure we'll need to receive these won't
11 be built until such time as needed.

12 COMMISSIONER BOYD: And the VLCC would
13 be a 60 foot draft?

14 MR. SCHEPENS: Well, the current fleet
15 of VLCC's primarily, nominally is referred to as a
16 76 foot draft. The new double hull group of
17 vessels coming out of shipyards now are being
18 designed at 62 to 66 feet, which is more than --
19 the Berth 121 berth can more than adequately
20 handle a fully loaded new generation VLCC.

21 COMMISSIONER GEESMAN: And could you
22 comment briefly on the potential expansion to
23 Berth 26?

24 MR. SCHEPENS: Yeah, right now there's a
25 peninsula, and if you face it, to the right side

1 of the peninsula is Berth 121, the front of the
2 peninsula will be Berth 124, to the left side has
3 been designated as Berth 126, which will be
4 Mitsubishi's or Clean Energy Solution's LNG
5 terminal.

6 If that terminal is built, obviously 126
7 will be used for LNG. However, if -- and there's
8 opposition to that LNG project, as everyone knows
9 -- if that project does not get built there's 30
10 acres of land and that berth site that will be
11 available for additional expansion of tankage and
12 dock capacity.

13 To give you an idea, we're going to put
14 one and a half million barrels of tankage on about
15 17 acres of property, to give you a reference. So
16 30 acres, we could probably put another two and a
17 half to three million barrels on.

18 COMMISSIONER GEESMAN: And could you
19 update us on where you are with your permit
20 applications?

21 MR. SCHEPENS: We are currently doing
22 studies on vessel emission quantities to determine
23 what ERC's we're going to require for the vessel
24 emissions. By far, for pacific and for
25 Oiltanking, the biggest issue in the permitting

1 with air emissions, is dealing with the vessel
2 emissions, which are our responsibility.

3 The VOC's from the tanks are relatively
4 minor compared to the SOX, NOX, and particulate
5 matter coming out of the vessel stacks. We're
6 doing that, we are in process of initiating the
7 EIR process with the Port of Long Beach, they'll
8 be the lead agency on that.

9 And we've made contact in a meeting with
10 the AQMD talking about their emissions issues.

11 COMMISSIONER GEESMAN: Great.

12 COMMISSIONER BOYD: Will the new
13 generation of tankers that you referenced be more
14 capable of cold ironing, i.e. electrical plug-in
15 possibilities?

16 MR. SCHEPENS: Good question. I think
17 if they get enough forewarning that the shipyards
18 can create pathways for the cables they probably
19 could be. If the Port of LA is the only port in
20 the world that requires it you have to wonder if
21 it's very cost-effective from the ship owner's
22 standpoint.

23 The only one that has cold ironing
24 capability today are the BP vessels, because they
25 have to come to the Port of LA.

1 The other thing to be aware of , Craig
2 Smith of BP made a presentation to the California
3 Air Resources Board. And in that he said the vast
4 majority of crude ships do not benefit from cold
5 ironing. They have steam boilers that run pumps.

6 Only the bigger ships that use the
7 engine propulsion to run the pumps can benefit
8 from cold ironing. So cold ironing is not a
9 panacea for the crude vessels.

10 COMMISSIONER BOYD: Thank you.

11 COMMISSIONER GEESMAN: Thanks, Jim. The
12 next blue card is Dave Hackett from Stillwater.

13 MR. HACKETT: Thank you. I was busy re-
14 writing in the middle of all that.

15 Thanks, Gordon. Good morning,
16 Commissioners and staff, ladies and gentlemen. My
17 name is Dave Hackett, I'm the President of
18 Stillwater Associates, and I'm here today to make
19 some comments on the staff's paper.

20 A quick overview of Stillwater
21 Associates is certainly not required for
22 Commissioners and staff, but for everybody else, I
23 wrote this to sort of validate our position in all
24 of this.

25 We've been doing energy policy work with

1 the California Energy Commission and other state
2 governments for some time now. And to some degree
3 I almost feel like I'm a godfather of this
4 process, because we started in 2001 with the
5 strategic fuel study, and we finished in 2002.

6 And so one of the recommendations that
7 we had coming out of that SFR study was to look at
8 this whole permitting issue and the whole issue of
9 infrastructure.

10 Since then we've done a number of other
11 things. The most recent, that you haven't heard
12 about, is a study on boutique gasolines for the
13 American Petroleum Institute.

14 And then recently, on the commercial
15 side, we've been working with Oxbow Carbon
16 Minerals, the Los Angeles Export Terminal and
17 Oiltanking on a combined clean oil and crude oil
18 terminal in the Port of Los Angeles.

19 I think in general, relative to the
20 report, we concur with most of the staff's
21 analysis. That is to say, we agree that
22 infrastructure is highly utilized and is high
23 cost.

24 How do you quantify what that
25 utilization and high cost is to consumers? Well,

1 the tankage market in Los Angeles runs about a
2 penny a gallon over alternative markets, it's
3 actually more than that.

4 A penny a gallon doesn't sound like
5 much, but for gasoline, jet fuel and diesel
6 consumers that works out to be a quarter billion
7 dollars a year.

8 We agree that the trend in
9 infrastructure capacity is mixed. Some new
10 capacity has been built on existing permits.
11 Other projects are struggling to get permits.
12 And as you heard earlier, some existing terminals
13 are being pressured to shut down.

14 We don't see refinery expansions keeping
15 up with demand growth, and I want to talk about
16 our assumptions on supply and demand in a moment,
17 and we concur that the CEC needs to have a role in
18 ensuring that the petroleum infrastructure grows
19 to meet the demand.

20 On the supply side, this bar graph shows
21 gasoline production since 1992. And where the
22 blue areas, classified as other gasoline, that's
23 conventional gasoline, or in the case today that's
24 the gasoline that goes to Arizona, Nevada and
25 Oregon.

1 The kind of purple gasoline was
2 oxygenated, that's gone out now. And then the
3 balance of it is reformulated gas, and you can see
4 that the gasoline production looks like it's
5 topped out.

6 In fact, according to your data,
7 gasoline production peaked in 2002 at 1,088
8 barrels a day. And then there's been a really
9 teensy decline over the last two years.

10 So far, for 2005, year-to-date gasoline
11 production looks to be about one percent ahead of
12 2004, so that's good news.

13 Not shown in here, so I put together a
14 quick draft while we were listening to the
15 discussion about assumptions on growth, of your
16 same data for annual crude oil runs.

17 And if you look at those data, there's
18 sort of a sawtooth that goes upwards. And so the
19 planner always gets a brain cramp about which data
20 points he wants to start with and exactly what the
21 slope of the curve is.

22 So I think that, that quick look at the
23 data which I can't show you right here, would say
24 that staff's assumption on half a percent and
25 Baker and O'Brien at one and a quarter are

1 certainly within the boundaries of a reasonable
2 person's guess at what production is going to do.

3 From our perspective, the work that
4 we've done, we have not looked at those in the
5 current time frame. I think our last projection
6 was about a year old.

7 But a year ago we thought refinery creep
8 was on the order of .6 percent, and that light
9 product demand was similar to the EIA's number of
10 1.9 -- and that's with strong diesel and jet fuel
11 demand growth off a small base, and then gasoline
12 at probably one and a half.

13 It's going to be interesting to see for
14 example, what \$2.50 gasoline has done to demand.
15 We're looking forward to seeing those numbers when
16 they come out.

17 As far as comments and recommendations
18 are concerned, when staff first approached us in
19 2001 on the Strategic Fuel Reserve Report one of
20 the things that we asked for was an expansion of
21 the scope to look at all the factors that dealt
22 with supply, not just the inventory problem.

23 And one of the things we said to staff,
24 I remember this very clearly, we're going to have
25 to look at the refinery expansions. If you want

1 more supply you're going to have to expand the
2 refineries.

3 And the staff's response was "well, we
4 can't look at that." So what that says to me is
5 that staff's come a long way in the last four
6 years, recognizing sort of the magnitude of the
7 problem and that there are probably a number of
8 things that need to be done in order to improve
9 supply.

10 When I read the report, one of the
11 things that occurred to me was I didn't know how
12 much a billion gallons was. And depending on
13 assumptions, demand's going to grow to 2015 by
14 either two billion gallons or six billion gallons.
15 Well, how much is that?

16 A way to think about it is that a
17 billion gallons is about half a refinery's worth.
18 So two billion gallons is another refinery, and
19 six billion gallons is three refineries.

20 Now, given that it's not likely they're
21 going to be built here in California. we should
22 probably be paying attention to where this product
23 is coming from.

24 What I liked in the report is, I think
25 staff was trying to encourage a new and additional

1 computation as far as traders and independent
2 terminals are concerned. I think that's good.

3 As far as crude oil is concerned, we
4 concur with staff's assumption there's probably
5 only going to be enough crude oil demand import
6 growth for one terminal in LA. And we don't see
7 the VLCC issues being particularly critical, given
8 what new building VLCC's are going to look like as
9 far as draft.

10 Again, this isn't covered in the report,
11 but we think you should continue to ask for the
12 (?) waiver. However, I do have to point out that
13 10 percent blending methanol will increase the
14 gasoline pool. Now, you can't do that today,
15 given the predictive model, but I support the air
16 board's continuing look at the predictive model.

17 And then, this one is not covered at
18 all, but as long as I've got the podium I'm going
19 to say this. You all ought to ask Chevron to
20 eliminate Unocal gasoline paths. Pat Perez was
21 testifying before a congressional hearing in Long
22 Beach on Monday, and he did a great job, and he
23 said that the paths are costing consumers one to
24 three cents a gallon, and so that's' half a
25 billion dollars, ballpark, is what that cost

1 consumers in California.

2 So, I think you all ought to write him a
3 letter and ask him for that.

4 COMMISSIONER GEESMAN: Now, you think we
5 ought to ask that question before the deal closes?
6 Because that translates into not so much asking
7 Chevron as asking those who have to pass muster on
8 the deal.

9 MR. HACKETT: It'll be interesting to
10 see how this progresses, because we've sort of
11 pointed this out to other folks as well. And I
12 don't know if Chevron's going to step up on their
13 own, or how they want to play it. But it
14 certainly is our suggestion.

15 Okay, in summary --

16 COMMISSIONER BOYD: You mean all those
17 hours I spent testifying in Washington in front of
18 the FTC are for naught, perhaps? It would be a
19 good thing if they were, I'm just being facetious
20 of course.

21 MR. HACKETT: Yeah, but that's correct.
22 In summary, it doesn't make any difference. With
23 the demand growth projections that you have, I
24 mean, whether or not alternative fuels come in or
25 not, the fuels demand's going to continue to grow.

1 Our projections from a year ago on
2 Arizona and Nevada were Arizona three percent a
3 year on gasoline, and Nevada four and a half. And
4 I see we've got Arizona in the audience today, and
5 so we might ask him to chime in on that as well.

6 Assuming that refinery expansion
7 opportunities are limited, and so what we've been
8 doing so far is quarreling over small differences
9 in very large numbers. The bulk of the growth is
10 going to be supplied by water board imports, and
11 most of that's going to come into the ports at Los
12 Angeles and Long Beach.

13 It's clear that petroleum facilities
14 will have to be expanded to accommodate those
15 imports, and new solutions are going to have to be
16 found to solve the problems of getting permission
17 to build.

18 And that concludes my remarks.

19 COMMISSIONER GEESMAN: Dave, if we zero
20 in on issues surrounding Port of Los Angeles, Port
21 of Long Beach, we go through the staff numbers,
22 should we back out the various Chevron-related
23 numbers because of their facilities in El Segundo?

24 MR. HACKETT: Well, Chevron's facilities
25 are primarily tied to the buoy in Santa Monica

1 Bay. So the bulk of their crude oil comes in
2 through that facility. And so, in general, we've
3 done these similar analyses.

4 We've got that one that looks at the
5 Port of LA and Long Beach with and without
6 Chevron, that's correct.

7 COMMISSIONER GEESMAN: Thank you. Okay,
8 my next blue card is Dominic Ferrari, Pacific
9 Energy Partners.

10 MR. FERRARI: Good morning,
11 Commissioners. Thank you again for having these
12 workshops, we really do appreciate your
13 persistence in conducting these workshops to
14 examine what we believe is a very serious issue.

15 And today I'm not here to talk about
16 supply demand and the need, you've heard enough of
17 that. I'm really am here just to give you an
18 update on the Pier 400 project that's been
19 mentioned today and in the report.

20 I'll be very brief, since it's almost
21 lunch time, but I did want to update you folks.

22 There was a question earlier, this
23 morning, about takeaway capacity, and I can't
24 remember if it was Commissioner Geesman or Boyd,
25 but takeaway capacity is very important in any

1 marine terminal.

2 We're going to have to build tankage to
3 land these tankers. And when that oil is in that
4 tanker it needs to move to refiners quickly,
5 because we've got another tanker coming in.

6 Pacific Energy owns a major distribution
7 system in LA, and we own nine million barrels of
8 tankage. So part of our project, in dealing with
9 customers, is to bring them in, build the
10 terminal, and provide this takeaway capacity.

11 So I wanted to mention that this
12 morning, because I didn't know if it was clear,
13 about the importance, and the fact that it does
14 exist, and we own it.

15 We decided in this presentation to bring
16 an artist's rendering. We've brought some
17 engineering map previously, and they're pretty
18 boring. This is our latest artist's rendering of
19 the Pier 400 project.

20 I'm pretty sure you folks are familiar
21 with the Pier 400 landfill, which is shown on the
22 right hand side. And you can see the tanker berth
23 along the, what they call Faith Sea.

24 There's the proposed tanker coming in to
25 its berth. This is the Pier 400 land mass that

1 was built in the last ten years, and as others
2 have said, most of it is containers, but they did
3 reserve areas for petroleum here.

4 And this area right here, we have what
5 we call a surge tank, some storage, and some large
6 pumps to take off the ship. And then along here
7 is a big 42 inch pipeline that comes over to an
8 area here where we'll have this tankage to receive
9 the marine vessels.

10 And again, I think I've mentioned a
11 couple of times that I've been up here, Pier 400
12 was originally designed for this specific
13 operation. It was not designed for containers.
14 And unfortunately the industry didn't jump on the
15 opportunity ten years ago.

16 But what I wanted to emphasize one more
17 time, and it's very important is -- this is
18 Angel's Gate right here, and the Pacific Ocean
19 obviously.

20 What I mean by designed is, when these
21 big vessels come in, they come in through Angels
22 Gate and boom, they're right there.

23 Right now, tankers come in and they have
24 to navigate in through here, or here, or whatever,
25 and when you get these vessels in navigating on

1 inner harbor there's more of a chance for an
2 accident.

3 And more importantly this is where the
4 population is. You're talking about the PCAC and
5 the population, they don't want these operations
6 next to them, that's why they want to move
7 facilities out here.

8 So this is the farthest site available
9 to do this operation, keep it away from the
10 public, and keep this operation from the inner
11 harbor.

12 We sincerely believe that this is the
13 major asset of this facility, and basically why
14 Pier 400 was designed the way it is. So I hope
15 that helps a little bit, those engineering
16 drawings are hard to follow.

17 Again, I've talked about this before, we
18 do have 81 feet of water, that's very deep.
19 Louisiana is the only other port that has deeper
20 water, so this is a major selling point.
21 Basically our customers can bring in any ship that
22 they want.

23 And when oil companies have options,
24 what that means is they go out and buy the
25 cheapest crude, and normally that's passed on to

1 the customer. So what this is is optionality, and
2 it should result in lower prices.

3 We're looking right now at about 4
4 million barrels to handle this operation, but
5 again this is connected to a major pipeline system
6 that we own that has another 9 million barrels
7 connected to it. So this is just the front end of
8 a larger system that we plan to operate.

9 We're permitting this thing for 250,000
10 a day, and basically we think we hit that right on
11 the nose with what we've seen in the marketplace.

12 Our latest investment figure is in the
13 range of \$150 to \$180 million.

14 I'm going to skip this slide because
15 it's just more of what you've already heard, so
16 I'd like to skip it.

17 What I'm really here for today is just
18 to give you a status update, which is the next
19 slide, of our project.

20 As you all know, a major project like
21 this has to go through the NEPA and CEQA
22 permitting process, and we're well underway. We
23 started this process last year in July with the
24 scoping meeting, and of course there's a lot of
25 work just to get to a scoping meeting.

1 But we are very happy with the progress
2 of the CEQA. Not only the CEQA, the Port of LA,
3 and the Army Corps, but all the agencies that have
4 to be involved in this project, like the Air
5 Resources Board, like State Lands, everybody's
6 coming together and working hard. We're very
7 happy.

8 We expect a draft EIR to be issued in
9 October of this year, that's our current
10 expectation. And this is pushed back a little bit
11 from the last time I was here, but we're fairly
12 confident this will happen in October.

13 I can't tell you how many meetings we're
14 holding with community groups. Again, this is
15 tacking on to the discussion this morning with
16 PCAC. And not only them, but a lot of other
17 community groups. I think our business fellows
18 meet probably every day with community groups to
19 keep them on board.

20 One thing we're going to do, within the
21 CEQA process, that I don't think other folks do is
22 we are going to have some technical forums in the
23 fall. And what we want to do is have technical
24 forums to address specific questions that the
25 public has.

1 What is a tanker, what is double hull,
2 what's an inert gas system? There's a lot of
3 technicalities that need to be discussed because
4 we're going to build obviously the safest
5 operation we can but you really can't get through
6 that without, we believe, having technical forums.
7 We're going to do that in the fall.

8 The status on the NEPA and CEQA is to
9 finish it this year and hopefully get
10 certification in 2006 plus or minus. And with
11 that type of approval we basically would be
12 looking to start up in July, September of '07.

13 Now, in order to do that, to get
14 approval here and startup here, obviously we have
15 to have a lot of things going in parallel. And we
16 are. I mean, we don't have an EIR yet or a
17 permit, but we just started for instance our
18 preliminary engineering on the project. This is
19 costing a lot of money.

20 But there's a lot of things that have to
21 be done in parallel to meet this time frame, and
22 we're doing that.

23 While I'm on this slide, I left out a
24 couple of very important things. It was mentioned
25 earlier that the air issue is probably one of the

1 biggest issues on this project. And I'm happy to
2 say that we have purchased 85 percent of the
3 emission reduction credits required to build this
4 project.

5 We will offset the emissions that come
6 from the vessels, and we're doing that by
7 purchasing NOX, SOX, PM-10's on the open market.
8 And that 85 percent has cost us over \$10 million
9 to date.

10 So it's a difficult project, in terms of
11 having to spend that kind of money up front, but
12 the point I'm trying to make is those emission
13 reduction credits are very scarce, and you have to
14 take advantage of that market and we did. And we
15 feel very good about that.

16 This all has to do with the no net
17 increase. A lot of the issues that were talked
18 about this morning are being addressed in this
19 process.

20 Community considerations. Again, this
21 was talked about this morning so I'm not going to
22 spend a lot of time other than again, we are out
23 there having, participating in meetings, calling
24 our own meetings. We're taking this head on, we
25 have nothing to hide.

1 We're meeting with the leaders of PCAC,
2 the leaders of the community, and we're addressing
3 their issues head on.

4 One of the issues that did come up was
5 the use of union labor, and we have agreed to go
6 ahead and use union labor to build the project,
7 and that's, that kind of helped our efforts.

8 On environmental, I think I mentioned
9 most of these items -- in fact, I've hit all of
10 them, so I'm going to skip this slide.

11 On safety, I've talked about the remote
12 location. MOTEMS has been mentioned several times
13 this morning, and obviously we would do that.
14 We're going to build this facility to be a world
15 class facility in terms of safety.

16 And finally, this is my last slide,
17 commercial status, this is where the rubber meets
18 the road. Valero Refining has signed a 30 year
19 deal with us. This is a binding commitment for
20 50,000 a day. They've basically baseloaded our
21 project.

22 We're underway with basically everybody
23 else. And right now we expect to be fully
24 subscribed by the time we start building this
25 thing. I, obviously I can't get into names and

1 amounts, but I wanted to give you a feel for the
2 interest in the refining community for this
3 project.

4 And we are an open access facility, so w
5 are talking to everybody and giving everybody a
6 chance to participate in the capacity available on
7 this project.

8 And that's my report, I appreciate the
9 opportunity again to give you an update.

10 COMMISSIONER GEESMAN: Thanks, Dominic.
11 As of right now, what level of storage do you
12 envision starting up at?

13 MR. FERRARI: Commissioner, we're
14 planning on four million barrels of new storage,
15 and to be quite frank with you, that'll do it. I
16 mean, we don't need to build anything more. And
17 it's mainly because, again, that four million
18 barrels will be connected to an extensive pipeline
19 system that's connected to other tankage, so it's
20 all being designed as one big system.

21 COMMISSIONER GEESMAN: And that full
22 volume then would be where you're artist rendition
23 showed, tank farms?

24 MR. FERRARI: Yes sir. Yes, Shields
25 Tank Farm, that's where the four million barrels

1 would be located, the new four million barrels.

2 COMMISSIONER GEESMAN: Thanks very much
3 for your presentation.

4 MR. FERRARI: Thank you.

5 COMMISSIONER GEESMAN: My last blue card
6 is Mohsen Nazemi. I want to thank you for being
7 here, Mohsen, and appreciate the degree to which
8 you have participate din our process.

9 MR. NAZEMI: Thank you very much, sir.
10 Thanks for the opportunity to be here and comment
11 on the staff's assessment for petroleum needs.

12 First off, I want to commend staff for
13 the good work they've done. And I guess to set
14 the stage, I want to say we support many of the
15 recommendations that staff has made in this
16 report, and I will get to the specifics.

17 But before doing that, I think it's
18 important to set the stage for why South Coast is
19 interested in this process. As you know, South
20 Coast is one of only two areas in the United
21 States that is designated as extreme ozone non-
22 attainment.

23 As a result, as you know, we have much
24 bigger hurdles that we have to jump over to
25 achieve clean air. A population of over 15

1 million people, residents breathe this dirty air.

2 And our hopes are that we can work towards clean
3 air so that we can meet the ambient standards.

4 We regulate over 26,000 facilities.

5 These are stationary sources that are in our four
6 county jurisdiction. It's all of Orange, and then
7 the major metropolitan areas, Los Angeles,
8 Riverside, and San Bernardino Counties.

9 I want to point out that, based on your
10 staff's report, it shows that we have more than
11 half the refineries in the state located in South
12 Coast area. That's over a million barrels of
13 refining capacity.

14 Refineries happen to be the top seven
15 largest sources of sulfur oxides, from all of
16 those 26,000 facilities. They're seven of the top
17 11 largest sources of nitrogen oxides, and ten of
18 the top 15 largest sources of volatile organic
19 compounds. And that's why we're interested in
20 this process.

21 In addition, the petroleum
22 infrastructure also covers other facilities, such
23 as terminals. And again, based on your staff's
24 own report of the 46 marine terminals, the largest
25 portion of crude oil and petroleum products

1 received are received at Port of Los Angeles and
2 Port of Long Beach in the South Coast area, the
3 only area where you can receive the VLCC tankers.

4 And part of the reason we're interested
5 in the marine terminal activities is not just
6 because of liquid bulk, but almost 170 percent of
7 the top 350 emitting facilities in South Coast
8 have equivalent emissions at the port. So port,
9 by itself, is the largest source of emissions in
10 the South Coast area.

11 We talk about reducing emissions. And
12 as we look at the forecast for sources of
13 emissions in our area, almost every source of
14 emissions is going down. The only source of
15 emission that is not going down is the ships.

16 And part of it is because they're
17 federal sources, and we don't have much control
18 over it. But it's interesting, when we talk about
19 low sulfur diesel, Air Resources Board CARB
20 diesel, and things like that, so we talk about 15
21 parts per million.

22 Under the international treaty that
23 becomes effective this month, as we speak, there
24 will be a limit on the sulfur content of marine
25 diesel that ships can burn. But that limit is

1 45,000 parts per million sulfur.

2 Now, granted, some of the ships in our
3 area probably burn less, but there's also
4 opportunity to declare the West Coast as a sulfur
5 emission control area. But even if that happens
6 the limit is still going to be 15 parts per
7 million sulfur.

8 So you can see that there is a large
9 interest on our part to look at these sources and
10 consider what kinds of activities are happening at
11 the ports and the other refineries that I just
12 mentioned.

13 So, having said that, I want to come
14 back to the staff assessment. I think I want to
15 reiterate that we definitely support better
16 coordination between state and local agencies as
17 well as the federal agencies that deal with these
18 types of petroleum infrastructure.

19 We support permit streamlining as, again
20 identified in your staff's report. We have
21 pioneered some permit streamlining measures that
22 ultimately got worked into the state law, and we
23 are continuing to do that.

24 So I'm, permit streamlining is meant for
25 our agency, and I welcome any suggestions and any

1 efforts that anybody has to address permit
2 streamlining.

3 to that extent, again, we support the
4 best permitting practices. And we'll be happy to
5 work with you to develop that if you'd like us to
6 participate in that program.

7 Having said that, we do have a
8 continuing concern about the proposal about one
9 stop permitting. The staff report actually shows
10 that almost none of the stakeholders support the
11 one stop permitting, yet we continue to see that.

12 I saw something new in this recent
13 report, which was one stop permitting for projects
14 across jurisdictional boundaries. And I guess I
15 was a little puzzled as to what that really means.

16 The initial read of that is that if it
17 crosses different cities or different counties,
18 then I say well, maybe that doesn't apply to
19 stationary sources. But again, when I hear staff
20 recommendations or presentations they say "well,
21 that might apply to marine facilities, or that
22 might apply to refineries."

23 So I guess we're not clear on what that
24 really means. But having said that, I want to
25 make sure that the Energy Commission understands

1 that permitting plays a key role in the compliance
2 work that we do, and together permitting and
3 compliance is the cornerstone of our stationary
4 source emission reduction commitment under the
5 state implementation plan.

6 Those are commitments that we have to
7 meet, imposed on us by federal law.

8 Just looking at petroleum
9 infrastructure, if another agency was to take that
10 role, we receive several hundred permits a year.
11 So, just want to give you an idea. I know you do
12 all the licensing for power plants, and I don't
13 know how many applications you get a year. But
14 think about this, several hundred permits a year,
15 just in the south coast area.

16 The other thing, that I was a little bit
17 surprised that it was left out of the staff report
18 is that, our agency is the designated agency under
19 the federal program for issuing Title V permits.
20 We have the responsibility for implementing that
21 program.

22 The delegation requires development and
23 implementation of the Title V program, and if any
24 other agency wants to do that they have to submit
25 a program to EPA, they have to get approval for

1 that.

2 And, consistent with that, approval is
3 based on full capability to enforce the program.
4 Not just to issue the permit, but to be able to
5 enforce that program.

6 So I want to ask you to keep that in
7 mind, even with the power plant licensing program
8 that's in place for the last couple of decades.

9 As the Title V program came about, we
10 have to issue another permit, and that's an
11 overlay on what you do.

12 with respect to the new projects that
13 were discussed here, I would not take more time to
14 go over them, but I just want to point out, in
15 addition to the Paramount Refinery we have issued
16 permits to Conoco Phillips ultra-low sulfur diesel
17 project.

18 We heard about the Pacific Energy
19 Partners Pier 400, Kinder Morgan -- one point I
20 want to bring up, and maybe that's one pint you
21 can look into as part of best permitting practices
22 -- with Pacific Energy Partners we have agreed
23 under memorandum, a very unofficial memorandum of
24 agreement, that we're going to work on this
25 project before they even file applications. So

1 our staff is already working on this.

2 And the reason we're doing that is we
3 want to make sure that the CEQA, NEPA document
4 that is being prepared is consistent with what we
5 believe should be in there, so we don't have to
6 wait for them to finish that document and then say
7 "whoops, you didn't look at this part of that
8 part." And I think that's something you can maybe
9 recommend.

10 Kinder Morgan project, we have just gone
11 beyond public comment. Public comment period is
12 closed, we have received some comments, and we're
13 in the process of addressing and responding to
14 those public comments.

15 You hear about LNG. We have the only
16 onshore, so far, LNG project. Sound Energy
17 Solutions, onshore LNG terminal in Port of Long
18 Beach. That's 320,000 cubic meters of full
19 containment storage capacity. We also have an LNG
20 fueling facility at that site if it gets built.

21 And then you heard, the most recent
22 project we've been discussing, with Oiltanking,
23 regarding a new crude oil terminal in Port of Long
24 Beach, at Berth 124.

25 And again, we're working with project

1 proponents in innovative ways to build these
2 projects and at the same time address the
3 emissions issues related with port facilities.

4 And there are a variety of ways that
5 they can do that. Cold ironing is just one aspect
6 of it. The others are looking at innovative ways
7 that they can reduce emissions from ships as they
8 come into the harbor and as they dock in the
9 ports.

10 There are a number of ways that they can
11 do that. Onshore pumps is another way to minimize
12 the load on the ship pumps when they're unloading.
13 If there's a pipeline and they have to unload
14 crude from a ship and run it through this
15 pipeline, if you have an onshore pump that would
16 give you a boost then all you have to do is run
17 those engines to run it from the ship to that
18 pump, not throughout the pipelines to the tanks.

19 These are some of the work we are doing,
20 and I want to bring us back to the
21 recommendations. I think the coordination of the
22 efforts by local, state, and federal agencies can
23 be done. And a good example was the green team
24 that was formed during the past energy crisis,
25 where the state had a coordination role, a

1 facilitator role, whatever you want to call it.

2 And maybe the recommendation for one
3 stop permitting can be exercised if there are true
4 cross-jurisdictional boundary projects, such as
5 pipeline projects, where there are a number of
6 cities or counties involved on the project, and
7 would give the Energy Commission a better role in
8 being the lead agency in CEQA preparation or
9 permitting, because that would bring all those
10 agencies together. But we don't see that role for
11 stationary sources.

12 The other point that was brought up
13 today, and in the report, was terminal closure.
14 And I think the Energy Commission can play a
15 stronger role in addressing that.

16 That brings me to the other part of your
17 responsibility, where you look at the electricity
18 outlook projections, and that's part of the same
19 IEPR report, you have projected that there will be
20 a shortage of electricity in the southern part of
21 the state if we have one in ten summer temperature
22 by anywhere more than 1,000 megawatts.

23 Yet, we have about 800 megawatts of
24 existing power plants that have just shut down
25 because of lack of contracts. So if there is

1 anything you can do with the electricity I think
2 you should also look into the same aspect of the
3 terminal closures, see what the Energy Commission
4 can do to prevent some of these or provide
5 incentives.

6 And in closing I want to say that the
7 port emissions are really not a minute problem,
8 they are a big problem. The same as electricity,
9 the same as the fuel supply demand problem.

10 And one tanker is equivalent to having
11 12,500 trucks on the highway. So you need to look
12 at how emissions from these port activities impact
13 the local communities and be able to come up with
14 either incentive programs or innovative programs
15 where they can be addressed so that this
16 opposition can meld with building new projects or
17 expanding the facilities.

18 And with that, I appreciate the
19 opportunity, and would be happy to answer any
20 questions.

21 COMMISSIONER GEESMAN: Thank you once
22 again, Mohsen. I appreciate the thoughtfulness of
23 your remarks, and in response to your initial
24 comment about the best practices work, I think we
25 would be remiss if we didn't work quite closely

1 with the South Coast District in assembling that
2 work.

3 So I can assure you it will be our
4 intent to work very closely with you and your
5 staff in pursuing that.

6 As it relates to marine terminals in the
7 Port of Los Angeles, Port of Long Beach, I wonder,
8 have you done any assessment as to the relative
9 contribution of pollution coming from the ports
10 that can be attributed to the petroleum import
11 activities compared to containerized shipping?

12 MR. NAZEMI: Personally I have not done
13 it, and I'm not 100 percent sure whether our
14 agency has done that work or not. But the one
15 comment that I could make related to that -- and
16 again I'd be happy to offer our assistance to work
17 on that because I know we are very involved in the
18 no net increase nd port advisory groups and all of
19 that --

20 but the one comment that I do want to
21 make is that, although there's probably a much
22 greater contribution from container ship terminals
23 than marine terminals, in terms of the number of
24 ships coming out,

25 but my understanding -- and it's very

1 limited so take it with a grain of salt -- is that
2 when the ships come into port, the maneuvering and
3 coming to the berth emissions are greater from
4 container ships.

5 But once they are at the port, their
6 marine terminals have greater emissions associated
7 with the ships because of the unloading of the
8 liquid fuel.

9 And that, as you heard from some of the
10 previous speakers, if they're especially running
11 on steam engines or steam pumps, coal ironing is
12 not going to help.

13 So you're still going to have those
14 emissions coming during the unloading of the
15 product. Whereas with the containers you don't
16 have that type of emissions.

17 COMMISSIONER GEESMAN: I wonder if this
18 is an area that we can make some analytic progress
19 in in the month's ahead. I think that we've got
20 forthcoming, somewhat later this summer, an
21 environmental assessment of petroleum
22 infrastructure, and I'd certainly think that we
23 would benefit by anything that your staff has done
24 that would provide a comparative contest with
25 container shipping.

1 And certainly as you look forward to the
2 next couple of decades and the likely
3 technological improvements, it's important from
4 this Commission's standpoint that these petroleum
5 facilities not be demonized to the extent that
6 many in the local community do, and that their
7 impact be seen in an appropriate context that
8 takes into consideration all of the things that
9 are going on within the port.

10 And we, hopefully, as a better informed
11 regulatory entity -- and I'm speaking primarily I
12 think of your district and the ARB -- can make
13 some enlightened decisions as to how to best clean
14 up the air. I think it's been our Commission's
15 belief that these petroleum facilities will
16 continue to play an important role in the economy
17 of the state.

18 There's no question that they ought to
19 be made as environmentally protective, if not
20 benign, as possible, but that their very existence
21 shouldn't really be called into question at the
22 interest of political demagoguery or alarm waving
23 that doesn't choose to take into consideration the
24 specific facts.

25 So, I would appreciate it if we can get

1 our staff together with yours and review what
2 emissions data is available to us for analytic
3 purposes, assessing all of the sources of
4 emissions within the port.

5 MR. NAZEMI: Commissioner Geesman, I
6 agree with you 100 percent, and in fact during our
7 earlier meetings with your staff on petroleum
8 performance, environmental performance in ports,
9 that was an issue that I brought up that we need
10 to look at all the source emissions associated
11 with marine terminals as well.

12 And it's a fair question to say how does
13 that compare to the other mobile source emissions
14 associated with port activities. So I think
15 that's a good suggestion.

16 COMMISSIONER GEESMAN: Well, we've got a
17 lot of work ahead of us, and I certainly
18 appreciate your continued involvement.

19 MR. NAZEMI: Yes, we keep holding these
20 marathon workshops we've got to do, so we've got a
21 lot of work. Thank you.

22 COMMISSIONER BOYD: Mohsen, I just want
23 to add my appreciation to those remarks of Mr.
24 Geesman. And I want to say, I think I speak for
25 all of us, that we would want to work with any air

1 district that has ports in its jurisdiction, the
2 Bay Area as well, on a package for the future.

3 As you probably know, the Air Resource
4 Board's recent annual symposium, the Haggensmit
5 symposium, was dedicated to goods movement, for
6 freight movement, were obviously a large component
7 of that.

8 I know that South Coast, both were
9 there, and I think Darryl and I were there for
10 this agency.

11 And that put a lot of information on the
12 table about the subject, the issues, the problems,
13 the control technologies and what have you, and is
14 a reservoir of information that I'm sure all of us
15 can use in working on the subject.

16 So, you obviously know, you have a lot
17 of empathy, understanding, and what have you up
18 here at this agency with regard to the need to
19 clean up the air in the LA area, and everywhere.

20 So we do want to work as partners, don't
21 want to dwell on turf as much as some people have.
22 And the staff has courage, they keep bringing the
23 issue up in the face of such opposition.

24 But I think it continues to focus
25 attention on the fact we need to do something

1 about it, and hopefully everyone can work together
2 to bring this to a speedy resolution.

3 You referenced the green team, and I'm
4 very familiar with that. But, pulling people
5 together was advantageous, and I think that the
6 same goes for this subject as well. So thank you.

7 COMMISSIONER GEESMAN: Thank you,
8 Mohsen. I have exhausted my supply of blue cards.
9 Is there anyone in the audience who cares to
10 address us?

11 MS. WOLFE: Hello, staff invited me to
12 appear today in case you had questions about
13 pipeline safety.

14 My name is Nancy Wolfe, I'm Chief of
15 Pipeline Safety Division at the California State
16 Fire Marshal's Office, and staff thought that you
17 might appreciate a brief overview of what our
18 program does, and how we interact with the federal
19 government.

20 We have provided you with a short
21 document today, and we have also provided a graph
22 that shows the trends in pipeline accidents, which
23 have been declining over the last ten years.

24 Now, while the graph shows the numbers
25 declining we would caution that the impact of

1 those accidents is still very significant,
2 primarily because of the population growth and the
3 fact that the existing pipelines, while they
4 started out in the earlier days to be in rural
5 areas, the growth of urban areas has grown to
6 encompass many of them.

7 So the impact of pipeline accidents has
8 become more significant as the years have gone on
9 even though the numbers have declined. The number
10 that you're seeing there have leveled off at
11 around 15 per year.

12 The figures are representative of those
13 statistics that are reported to the federal Office
14 of Pipeline Safety, which the threshold is \$50,000
15 in damage or any kind of injury or death.

16 The state legislature provides that the
17 state Fire Marshall has exclusive regulatory
18 authority over the safety of pipelines. We're
19 talking about hazardous liquid pipelines.

20 The Public Utilities Commission has a
21 like program that covers natural gas.

22 The State Fire Marshal's jurisdiction is
23 about 6,300 miles of pipelines in California.
24 That represents 1,300 miles of interstate and
25 about 5,000 intrastate.

1 That distinction is important because,
2 by federal law, the state's Department of
3 Transportation's Office of Pipeline Safety has
4 jurisdiction over all pipelines in the United
5 States.

6 Under federal law the Office of Pipeline
7 Safety can recognize or certify state programs for
8 intrastate regulatory activities. State Fire
9 Marshal has held that certification since 1984.

10 In addition to that, federal law
11 recognizes that the Office of Pipeline Safety can
12 act as an agent for the federal government in
13 regulation of interstate pipelines. State Fire
14 Marshal has held that interstate agency since
15 1987.

16 The difference between the activities we
17 have over inter- and intra- are minor in nature.
18 State regulations are not normally applied to
19 interstate pipelines, and the citation and penalty
20 decisions that are made for any kind of violations
21 that are noted are handled by the Office of
22 Pipeline Safety, whereas on intrastate pipelines
23 we handle everything.

24 There's an administrative civil
25 penalties division for that. In 2004 State Fire

1 Marshal investigated six interstate and eight
2 intrastate accidents, including the tragedy in
3 Walnut Creek where five workers were killed when a
4 gasoline pipeline was ruptured by an excavator
5 installing a municipal water line for the East Bay
6 MUD.

7 In addition to the investigation
8 activity of actual accidents we spend, this year
9 we spent hundreds of hours responding to potential
10 problems on pipelines, most of them related to the
11 unusual weather activities in southern California,
12 where we had landslides, spot flooding and other
13 kind of potential problems of pipelines.

14 We also have had an increase over the
15 last few years with the responses that we make to
16 potential problems with pipeline that are resulted
17 from train derailments. Many of the pipelines in
18 California re run concurrent with train tracks in
19 the easements for railroads.

20 So any kind of derailment runs the risk
21 of damaging the pipeline that's buried beside it.
22 We recognized that the continued unobstructed
23 operation of pipelines in California is very
24 important.

25 We take our role as regulators very

1 seriously, but like the Energy Commission and our
2 other sister agencies we recognize that our job
3 also is to help California grow, and to keep the
4 businesses going, and that it's vital to keep the
5 pipelines in top operation.

6 So, I don't want to expend a lot of time
7 here. I would be more than happy to answer any
8 questions you have regarding our program.

9 We coordinated somewhat with Gordon and
10 his group when we do have accidents or when a
11 pipeline is shut down, so they are aware of how
12 long the pipeline is controlled.

13 So if you have any questions I could
14 answer I'd be happy too.

15 COMMISSIONER GEESMAN: Your graph, with
16 respect to incidents, 1994-2004, does that combine
17 both intra- and interstate state?

18 MS. WOLFE: Yes it does.

19 COMMISSIONER GEESMAN: Any appreciable
20 difference between the two?

21 MS. WOLFE: No, I don't think we have an
22 appreciable difference, although the problems are
23 not related to whether, by and large, they are
24 inter- or intra-.

25 COMMISSIONER GEESMAN: And are you

1 involved in the initial permitting or routing of
2 pipelines?

3 MS. WOLFE: To a minor extent. We are
4 not a permitting agency. Our feeling is that a
5 pipeline is either safe and it operates or it is
6 not safe, and we close it. So there are not
7 permits that are issued by our office.

8 But we do have some significant
9 difficulties with the delay permitting activities
10 from other agencies.

11 COMMISSIONER GEESMAN: What do you mean
12 by that?

13 MS. WOLFE: When we recognize that a
14 pipeline has an anomaly that needs to be
15 evaluated, most of the time the pipeline needs to
16 be exposed, and in order to do that there has to
17 be permits.

18 While we're not the agency that delivers
19 the permits, the delay in issuing the permits
20 compounds the risk that an anomaly would have.

21 COMMISSIONER GEESMAN: Yeah, our staff
22 has pointed to the Kinder Morgan line through the
23 Suisun Marsh as an example.

24 MS. WOLFE: That was one of the issues.
25 There's also been, over the past few years,

1 problems in southern California with a company's
2 inability to cover their pipelines, protect their
3 pipelines, when it was exposed in a desert area
4 because of a sand fly environmentally sensitive
5 area.

6 And we are supportive of that, but we're
7 also very concerned at the exposure and the risk
8 that that delay involves.

9 COMMISSIONER GEESMAN: Thank you very
10 much.

11 COMMISSIONER BOYD: Another quick
12 question, if you would. Do you have any concern
13 about the age of the California pipeline
14 infrastructure?

15 Is there any reason to be more concerned
16 now with a lot of these facilities having been in
17 the ground a long time?

18 Or are we just in a maintenance mode
19 more often and that's just going to be fact of
20 life?

21 MS. WOLFE: In most cases it's a fact of
22 life. Pipelines are very much like automobiles or
23 washing machines, you know, if you've got a car
24 that you maintain well, and you keep any parts
25 that are damaged replaced or repaired, then your

1 car's going to run a long time.

2 And it could almost run indefinitely.

3 If your vehicle is used hard or it's not
4 maintained properly it wears out faster.

5 Now that's a very simplistic answer to
6 your question, because there's also a lot of
7 factors that impact the age of a pipeline, such as
8 your type of product, the corrosive nature of the
9 product, the external corrosion, just -- there's a
10 whole variety of things that could happen to the
11 pipeline.

12 But by and large, age is not the
13 critical determining factor.

14 COMMISSIONER BOYD: Okay, since you
15 mentioned, you know of criteria, you know of
16 elements or factors that would maybe accelerate
17 pipeline corrosion in some areas versus others,
18 does that affect your inspection policy or
19 requirements?

20 MS. WOLFE: The inspections that are
21 done are routine, done by our inspectors are on a
22 routine basis. But the pipeline operators are
23 also required to have their own inspection
24 program, their own integrity management program
25 which we oversee the elements of that.

1 We inspect every time we do a
2 comprehensive inspection of the facilities. They
3 do internal inspections of their pipelines either
4 by hydrostatic testing or by smart testing by
5 internal computerized devices.

6 So the monitoring that's done to keep
7 track of internal corrosion as well as external
8 problems, is extensive.

9 COMMISSIONER BOYD: Thank you.

10 COMMISSIONER PFANNENSTEIL: Just one
11 question. To what do you attribute this rather
12 dramatic decrease in reportable incidents over the
13 decade? Are there a couple of major factors that
14 are driving the safety?

15 MS. WOLFE: I think two of the most
16 important ones probably are the one call system is
17 being more highly utilized, and the companies are
18 looking at integrity management more proactively,
19 going after potential anomalies, and they are
20 stopping leaks before they are happening.

21 COMMISSIONER GEESMAN: Thank you very
22 much.

23 MS. WOLFE: Thanks.

24 COMMISSIONER GEESMAN: Anyone else in
25 the audience that would care to address us?

1 Okay, I want to thank everybody for your
2 participation today, and hopefully we'll see some
3 of you tomorrow.

4 (Thereupon, the workshop ended at 12:39 p.m.)

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